

Create First-Class Quality, On-Time Delivery, And Satisfy Customers' Requirements



Lite-On Semiconductor Corp.
ISO/TS 16949: 2002 Certificate



Shanghai Seefull Electronics Co., Ltd.
ISO/TS 16949: 2002 Certificate



Lite-On Semiconductor (WuXi) Co., Ltd.
ISO/TS 16949: 2002 Certificate



Lite-On Semiconductor Corp
OHSAS 18001:2007 Certificate

LITE-ON Semiconductors

A powerful force in your future

As one of the world's largest independent manufacturers of power semiconductor devices, Lite-On Semiconductor offers a comprehensive-range of reliable and economical power semiconductor design solutions. The company manufactures high-quality silicon and glass passivated standard and fast recovery diodes, and Schottky barrier diodes, including SMD and bridge rectifiers. All its bridge rectifiers utilize GPP structure technology, which has been proven superior to standard diode assembled or etching-dice bridges in terms of thermal performance.

Lite-On Semiconductor operates highly automated production facilities in Taiwan and Mainland China, which have been awarded the internationally recognized ISO-9001 / QS-9000 / ISO/TS 16949: 2002/ ISO-14000: 2004 certification. All the company's plants utilize the very latest in automated production and testing equipment, much of which was custom-designed by its own engineers to maximize manufacturing capacity and ensure truly world class levels of product quality.

After years of experience in meeting the stringent technology and quality requirements of its prestigious customers, the company complements its complete range of high-performance power semiconductor products with superior manufacturing flexibility, short delivery lead times, economical pricing and personalized after-sales support.

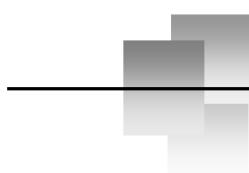
In addition, the company has the necessary experience and experience for providing customer design solutions to meet the special needs of its customers, and has also built up an extensive worldwide manufacturing, service and distribution.

The completion of manufacturing facility in China, has allowed Lite-On Semiconductor to more than double its production capacity while maintaining the same high standards of product reliability and performance. As a further step in its expansion, the company acquired an advanced EPI fabrication facility in Kansas, City, Missouri, from AT&T Microelectronics in February 1996, and established Fabtech, Inc., a major owned subsidiary. The plant manufactures a full range of schottky diodes.

These steps have also enabled the company to install state-of-the-art SMD production lines in China for manufacturing its high-end products. As a result, Lite-On Semiconductor now possesses the capacity technology and product line to further strengthen its partnerships with its customers.

CONTENT

| | | |
|---|------|----------|
| ◎ MOSFET | PAGE | 05 ~ 06 |
| ◎ TRIAC / SCR / SIDAC | PAGE | 09 ~ 11 |
| ◎ THYRISTOR SURGE PROTECTIVE DEVICE (TSPD) | PAGE | 15 ~ 16 |
| ◎ TRANSIENT VOLTAGE SUPPRESSOR (TVS) | PAGE | 19 ~ 44 |
| ◎ ESD PROTECTION DEVICE | PAGE | 47 |
| ◎ ZENER DIODE | PAGE | 51 ~ 53 |
| ◎ SCHOTTKY RECTIFIERS | PAGE | 57 ~ 62 |
| ◎ SUPER FAST & ULTRA FAST RECOVERY RECTIFIERS | PAGE | 65 ~ 70 |
| ◎ BRIDGE RECTIFIERS | PAGE | 73 ~ 76 |
| ◎ FAST RECOVERY RECTIFIERS | PAGE | 79 ~ 81 |
| ◎ STANDARD RECOVERY RECTIFIERS | PAGE | 85 ~ 88 |
| ◎ SWITCHING DIODE | PAGE | 91 |
| ◎ APPENDIX | PAGE | 95 ~ 147 |



MOSFET



TO-220AB



SOT-23

MOSFET

| Part Number | Electrical Characteristics | | | | | | | | | | |
|-------------|----------------------------|--|---------------------|-----|---------------------|-------|----------------|-----|-----------------|-----------------|--|
| | BV _{DSS} | I _D (T _c =25°C) | V _{GS(th)} | | R _{DS(on)} | | Q _g | | Q _{gd} | E _{AS} | P _D (T _c =25°C) |
| | | | Min | Max | Typ | Max | Typ | Max | | | Max |
| | V | A | V | V | Ω | Ω | nC | nC | nC | mJ | W |
| LZP60N06 | 60 | 60 | 2.5 | 4.5 | 0.014 | 0.016 | 43 | 56 | 13 | 600 | 125 |
| LZP80N06 | 60 | 80 | 2.5 | 4.5 | 0.0065 | 0.01 | 100 | 130 | 25 | 1200 | 300 |
| LTP50N06 | 60 | 50 | 2 | 4 | 0.015 | 0.02 | 51 | | 16 | | 90 |
| LTP70N06 | 60 | 70 | 2 | 4 | 0.01 | 0.014 | 80 | 170 | 25 | 350 | 150 |
| LTP75N08 | 80 | 75 | 4 | 6.5 | 0.0085 | 0.011 | 120 | | 38 | 150 | 400 |
| LTP90N08 | 80 | 90 | 3.5 | 5.5 | 6.5 | 9 | 152 | | 44 | 700 | 160 |
| LZP40N10 | 100 | 50 | 2.5 | 4 | 0.023 | 0.026 | 57 | 75 | 21.6 | 550 | 150 |
| LVP630 | 200 | 9 | 2 | 4 | 0.35 | 0.4 | 18 | 24 | 3 | 160 | 78 |
| LVP640 | 200 | 18 | 2 | 4 | 0.15 | 0.18 | 37 | 48 | 18.3 | 300 | 140 |

| Part Number | Electrical Characteristics (Continue) | | | | | | | Package |
|-------------|---------------------------------------|------------------|--------------------|----------------|---------------------|----------------|-----------------|---------|
| | C _{iss} | C _{rss} | t _{d(on)} | t _r | t _{d(off)} | t _f | V _{SD} | |
| | Typ pF | Typ pF | Typ ns | Typ ns | Typ ns | Typ ns | Max V | |
| LZP60N06 | 1745 | 85 | 25 | 130 | 75 | 85 | 1.5 | TO-220 |
| LZP80N06 | 3800 | 140 | 38 | 205 | 135 | 140 | 1.3 | |
| LTP50N06 | 2650 | 49 | 27 | 10 | 57 | 5 | 1.6 | |
| LTP70N06 | 4620 | 100 | 32 | 154 | 102 | 22 | 1.6 | |
| LTP75N08 | 7400 | 140 | 80 | 37 | 140 | 27 | 1.5 | |
| LTP90N08 | 10000 | 220 | 82 | 38 | 220 | 40 | 1.5 | |
| LZP40N10 | 2060 | 56 | 17.5 | 108 | 136 | 137 | 1.3 | |
| LVP630 | 385 | 30 | 6 | 60 | 41 | 51 | 1.5 | |
| LVP640 | 870 | 60 | 15 | 125 | 100 | 50 | 1.5 | |

| Part Number | Electrical Characteristics | | | | | | | | | | |
|-------------|----------------------------|--|---------------------|-----|---------------------|-----|----------------|-----|-----------------|-----------------|----------------|
| | BV _{DSS} | I _D (T _c =25°C) | V _{GS(th)} | | R _{DS(on)} | | Q _g | | Q _{gd} | E _{AS} | P _D |
| | | | Min | Max | Typ | Max | Typ | Max | | | Max |
| | V | A | V | V | Ω | Ω | nC | nC | nC | mJ | W |
| LT2N7002 | 60 | 0.3 | 1 | 2.5 | 2.5 | 5 | 1.4 | 2 | 0.5 | ---- | 0.35 |
| LT2N7002E | 60 | 0.3 | 1 | 2.5 | ---- | 3 | ---- | 0.8 | ---- | ---- | 0.35 |

| Part Number | Electrical Characteristics (Continue) | | | | | | | Package |
|-------------|---------------------------------------|------------------|--------------------|----------------|---------------------|----------------|-----------------|---------|
| | C _{iss} | C _{rss} | t _{d(on)} | t _r | t _{d(off)} | t _f | V _{SD} | |
| | Typ pF | Typ pF | Typ ns | Typ ns | Typ ns | Typ ns | Max V | |
| LT2N7002 | 43 | 6 | 6 | 5 | 15 | 6 | 1.5 | SOT-23 |
| LT2N7002E | 35 | 5 | 20 | ---- | 40 | ---- | 1.3 | |



SOP-8



TSOP-6

MOSFET

| Part Number | Electrical Characteristics | | | | | | | | | | |
|-----------------|----------------------------|-----------------------------|---------------------|------|---------------------|-------|----------------|------|-----------------|-----------------|-----------------------------|
| | BV _{DSS} | I _D (Tc=25°C) | V _{GS(th)} | | R _{DS(ON)} | | Q _g | | Q _{gd} | E _{AS} | P _D (Tc=25°C) |
| | | | Min | Max | Typ | Max | Typ | Max | | | Typ |
| | V | A | V | V | Ω | Ω | nC | nC | nC | mJ | W |
| LT4542 (N type) | 30 | 6.3 | 1 | 3 | 0.021 | 0.025 | 12 | 15 | 2.5 | ---- | 1.6 |
| LT4542 (P type) | 30 | -5.4 | -1 | -3 | 0.03 | 0.035 | 21 | 25 | 6 | ---- | 1.6 |
| LT4544 (N type) | 30 | 6 | 1 | 3 | 0.022 | 0.028 | 12 | 15 | 2.5 | ---- | 1.6 |
| LT4544 (P type) | -30 | -4 | -1 | -3 | 0.052 | 0.06 | 14 | 17 | 3 | ---- | 1.5 |
| LT4565 (N type) | 40 | 4.9 | 0.6 | 1.6 | 0.032 | 0.04 | 8 | ---- | 2.8 | 8.5 | 1.56 |
| LT4565 (P type) | -40 | -4.2 | -0.8 | -1.8 | 0.043 | 0.054 | 12 | ---- | 5.2 | 13 | 1.52 |
| LT4920 | 30 | 6.9 | 1 | 3 | 0.026 | 0.035 | 11.5 | 15 | 2.3 | | 2 |
| LT4936 | 30 | 5.1 | 1 | 3 | 0.023 | 0.036 | 13 | 20 | 3 | | 1.5 |
| LT4946 | 60 | 5 | 1 | 3 | 0.033 | 0.041 | 22 | 29 | 7.5 | | 1.6 |

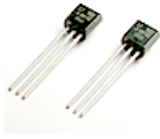
| Part Number | Electrical Characteristics (Continue) | | | | | | | Package |
|-----------------|---------------------------------------|------------------|--------------------|----------------|---------------------|----------------|-----------------|---------|
| | C _{iss} | C _{rss} | t _{d(on)} | t _r | t _{d(off)} | t _f | V _{SD} | |
| | Typ pF | Typ pF | Typ ns | Typ ns | Typ ns | Typ ns | Max V | |
| LT4542 (N type) | 360 | 17 | 9.3 | 14 | 32 | 3.2 | 1.2 | SOP-8 |
| LT4542 (P type) | 840 | 32 | 32 | 13 | 58 | 6.8 | -1.2 | |
| LT4544 (N type) | 360 | 17 | 9.3 | 14 | 32 | 3.2 | 1.2 | |
| LT4544 (P type) | 450 | 20 | 27 | 11 | 40 | 4 | -1.2 | |
| LT4565 (N type) | 500 | 9.3 | 8 | 15 | 36 | 2 | 1.2 | |
| LT4565 (P type) | 1000 | 22 | 30 | 12 | 62 | 5 | -1.2 | |
| LT4920 | 350 | 16 | 9 | 10 | 32 | 3.5 | 1.2 | |
| LT4936 | 380 | 18 | 9 | 14 | 32 | 5 | 1.2 | |
| LT4946 | 940 | 33 | 14 | 26 | 41 | 3.6 | 1.2 | |

| Part Number | Electrical Characteristics | | | | | | | | | | | |
|-----------------|----------------------------|-----------------------------|---------------------|-----|---------------------|-------|----------------|-----|-----------------|-----------------|----------------|-----|
| | BV _{DSS} | I _D (Tc=25°C) | V _{GS(th)} | | R _{DS(ON)} | | Q _g | | Q _{gd} | E _{AS} | P _D | |
| | | | Min | Max | Typ | Max | Typ | Max | | | Typ | Max |
| | | | V | A | V | V | Ω | Ω | | | nC | nC |
| LT3500 (N type) | 30 | 4.8 | 1 | 3 | 0.022 | 0.028 | 12 | 15 | 2.5 | ---- | 1.14 | |
| LT3500 (P type) | -30 | -3.6 | -1 | -3 | 0.052 | 0.06 | 14 | 17 | 3 | ---- | 1.25 | |
| LT3946 | 30 | 4.8 | 1 | 3 | 0.022 | 0.028 | 12 | 15 | 1.5 | | 1.14 | |

| Part Number | Electrical Characteristics (Continue) | | | | | | | Package |
|-----------------|---------------------------------------|------------------|--------------------|----------------|---------------------|----------------|-----------------|---------|
| | C _{iss} | C _{rss} | t _{d(on)} | t _r | t _{d(off)} | t _f | V _{SD} | |
| | Typ pF | Typ pF | Typ ns | Typ ns | Typ ns | Typ ns | Max V | |
| LT3500 (N type) | 360 | 17 | 9.3 | 14 | 32 | 3.2 | 1.2 | TSOP-6 |
| LT3500 (P type) | 450 | 20 | 27 | 11 | 40 | 4 | -1.2 | |
| LT3946 | 360 | 17 | 9.3 | 14 | 32 | 3.2 | 1.2 | |



TRIAC / SCR / SIDAC



TO-92



TO-220AB



TO-126

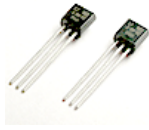


SOT-223

SCRs

| I _T (RMS) | V _{DRM} V _{RRM} | Part Number | Electrical Characteristics | | | | | | | dv/dt | Package |
|-------------------------|--------------------------------------|-------------|----------------------------|-----------------|----------------|---|--------------------|------------------------------------|-----|------------|----------|
| | | | I _{TSM} | I _{GT} | I _H | I _{DRM} @ V _{DRM} I _{RRM} @ V _{RRM} T _J | | V _{TM} at I _{TM} | | | |
| | | | | max | max | 25 °C | 125 °C | V | A | | |
| A | V | | A | (mA) | (mA) | uA | mA | V | A | (Typ) V/us | |
| 0.8 | 600 | S08U25-600A | 10 | 0.025 | 5 | 10 | 0.05 ₁₎ | 1.7 | 1.6 | 30 | TO-92 |
| 0.8 | 600 | S08U50-600A | 10 | 0.05 | 5 | 10 | 0.1 ₁₎ | 1.7 | 1.6 | 30 | TO-92 |
| 0.8 | 600 | S08M02-600A | 10 | 0.2 | 5 | 10 | 0.1 ₁₎ | 1.7 | 1.6 | 35 | TO-92 |
| 0.8 | 600 | S08M02-600D | 8 | 0.2 | 5 | 10 | 0.2 ₁₎ | 1.7 | 1.6 | 10 (min) | SOT-223 |
| 1 | 700 | S1U50-700A | 10 | 0.05 | 5 | 10 | 0.1 ₁₎ | 1.7 | 2 | 35 | TO-92 |
| 1 | 600 | R1U50-600A | 10 | 0.05 | 1 | 10 | 0.1 ₁₎ | 1.7 | 2 | 35 | TO-92 |
| 1.5 | 600 | S1VM02-600A | 15 | 0.2 | 5 | 10 | 0.2 ₁₎ | 1.7 | 3 | 25 | TO-92 |
| 4 | 600 | S4M02600F | 25 | 0.2 | 5 | 10 | 0.2 ₁₎ | 2.2 | 8.2 | 10 | TO-126 |
| 8 | 600 | S8M02-600B | 80 | 0.2 | 6 | 10 | 0.5 ₁₎ | 1.8 | 16 | 15 | TO-220AB |
| 8 | 600 | S8M15-600B | 80 | 15 | 30 | 10 | 2.0 | 1.8 | 16 | 250 | TO-220AB |
| 12 | 600 | S12M8-600B | 100 | 8 | 20 | 10 | 2.0 | 2.2 | 24 | 250 | TO-220AB |
| 12 | 600 | S12M15-600B | 125 | 15 | 40 | 10 | 2.0 | 2.2 | 24 | 250 | TO-220AB |

1) $T_J=110\text{ °C}$



TO-92



TO-220AB



TO-220FP



TO-220Ins



TO-126



SOT-223

TRIACs

| I _T (RMS) | V _{DRM} V _{RRM} | Part Number | Electrical Characteristics | | | | | | | | dv/dt | Package |
|-------------------------|--------------------------------------|---------------|----------------------------|------------------|------|----------------|---|-------------------|------------------------------------|-----|------------|-----------|
| | | | I _{TSM} | I _{GT} | | I _H | I _{DRM} @ V _{DRM} I _{RRM} @ V _{RRM} T _j | | V _{TM} at I _{TM} | | | |
| | | | | (I ~ III) | (IV) | | max | 25 °C | 125 °C | V | | |
| A | V | | A | (max) | mA | (mA) | uA | mA | V | A | (Typ) V/us | |
| 1.0 | 600 | T1M3F-600A | 10 | 3 | 5 | 10 | 10 | 0.1 ₁₎ | 1.9 | 1.4 | 60 | TO-92 |
| 1.0 | 600 | T1M5F-600A | 10 | 5 | 7 | 10 | 10 | 0.1 ₁₎ | 1.9 | 1.4 | 60 | TO-92 |
| 1.0 | 800 | T1M5F-800A | 10 | 5 | 7 | 10 | 10 | 0.1 | 1.9 | 1.4 | 20 (min) | TO-92 |
| 1.0 | 800 | T1M5F-800AR | 10 | 5 | 7 | 10 | 10 | 0.1 | 1.9 | 1.4 | 20 (min) | TO-92 |
| 1.0 | 600 | T1M5F-600D | 8 | 5 | 7 | 10 | 10 | 0.1 ₁₎ | 1.9 | 1.4 | 60 | SOT-223 |
| 1.0 | 600 | T1M10F-600D | 8 | 10 | 10 | 10 | 5 | 0.2 ₁₎ | 1.6 | 1.1 | 50 (min) | SOT-223 |
| 2.0 | 800 | T2M10F-800B | 27 | 10 | 25 | 15 | 10 | 2 | 1.7 | 3 | 50 | TO-220AB |
| 2.0 | 800 | T2M10F800C | 25 | 10 | 25 | 15 | 10 | 2 | 1.6 | 3 | 50 (min) | TO-220FP |
| 4.0 | 600 | T4M3F-600B | 40 | 3 | 5 | 15 | 10 | 2 ₁₎ | 1.6 | 6 | 5 (min) | TO-220AB |
| 4.0 | 600 | T4M10T-600B | 40 | 10 | ---- | 15 | 10 | 2 | 1.6 | 6 | 150 | TO-220AB |
| 4.0 | 800 | T4M10F-800BSS | 27 | 10 | 25 | 15 | 10 | 2 | 1.6 | 6 | 50 | TO-220AB |
| 4.0 | 600 | T4M35T-600B | 40 | 35 | ---- | 35 | 10 | 2 | 1.6 | 6 | 1500 | TO-220AB |
| 4.0 | 800 | T4M10F800FSS | 27 | 10 | 25 | 15 | 10 | 2 | 1.7 | 5.5 | 50 | TO-126 |
| 6.0 | 600 | T6M10F-600B | 60 | 10 | 20 | 15 | 10 | 2 | 1.6 | 8.5 | 50 | TO-220AB |
| 6.0 | 800 | T6M25F800I- | 63 | 25 | 50 | 25 | 10 | 2 | 1.55 | 5.5 | 200 | TO-220Ins |
| 8.0 | 600 | T8M5T-600B | 70 | 5 | ---- | 10 | 10 | 2 ₁₎ | 1.85 | 11 | 75 | TO-220AB |
| 8.0 | 600 | T8M10F-600B | 80 | 10 | 20 | 15 | 10 | 2 | 1.8 | 11 | 50 | TO-220AB |
| 8.0 | 600 | T8M25F-600B | 100 | 25 ₃₎ | 60 | 30 | 10 | 2 ₂₎ | 2.0 | 11 | 60 (min) | TO-220AB |
| 8.0 | 600 | T8M35T-600B | 80 | 35 | ---- | 40 | 10 | 2 | 1.6 | 11 | 400 (min) | TO-220AB |
| 8.0 | 600 | T8M50T-600B | 80 | 50 | ---- | 50 | 10 | 2 | 1.6 | 11 | 500 (min) | TO-220AB |
| 8.0 | 600 | T8M50F-600B | 100 | 50 | 75 | 40 | 10 | 2 ₂₎ | 1.55 | 11 | 100 | TO-220AB |
| 8.0 | 800 | T8M25F800C | 80 | 25 | 50 | 25 | 10 | 2 | 1.55 | 11 | 200 (min) | TO-220FP |
| 8.0 | 800 | T8M25F800I* | 80 | 25 | 50 | 25 | 10 | 2 | 1.55 | 11 | 200 (min) | TO-220Ins |
| 12 | 600 | T12M5T-600B | 90 | 5 | ---- | 10 | 10 | 2 ₁₎ | 1.85 | 17 | 40 | TO-220AB |
| 12 | 600 | T12M25F-600B | 100 | 25 ₃₎ | 60 | 30 | 10 | 2 ₂₎ | 1.7 | 17 | 60 (min) | TO-220AB |
| 12 | 600 | T12M35T-600B | 100 | 35 | ---- | 40 | 10 | 2 | 1.85 | 17 | 500 | TO-220AB |
| 12 | 600 | T12M50F-600B | 100 | 50 | 75 | 50 | 10 | 2 | 1.75 | 17 | 100 | TO-220AB |
| 12 | 600 | T12M50T-600B | 100 | 50 | ---- | 60 | 10 | 2 | 1.85 | 17 | 600 (min) | TO-220AB |
| 12 | 800 | T12M25F800C | 120 | 25 | 50 | 40 | 10 | 2 | 1.55 | 17 | 200 (min) | TO-220FP |
| 12 | 800 | T12M25F800I- | 120 | 25 | 50 | 40 | 10 | 2 | 1.55 | 17 | 200 (min) | TO-220Ins |
| 16 | 600 | T16M5T-600B | 120 | 5 | ---- | 10 | 10 | 2 ₁₎ | 1.8 | 21 | 75 | TO-220AB |
| 16 | 600 | T16M25F-600B | 150 | 50 | 75 | 40 | 10 | 2 | 1.6 | 21 | ---- | TO-220AB |
| 16 | 600 | T16M35T-600B | 150 | 35 | ---- | 50 | 10 | 2 | 1.6 | 21 | 600 (min) | TO-220AB |
| 16 | 600 | T16M50T-600B | 150 | 50 | ---- | 50 | 10 | 2 | 1.6 | 21 | 500 (min) | TO-220AB |
| 16 | 800 | T16M25F800C* | 160 | 25 | 50 | 40 | 10 | 2 | 1.55 | 22 | 200 (min) | TO-220FP |
| 16 | 800 | T16M25F800I* | 160 | 25 | 50 | 40 | 10 | 2 | 1.55 | 22 | 200 (min) | TO-220Ins |

1) T_j=110°C

2) T_j=100°C

3) I_{GT}(II) = 60mA

4) Mark " * " denote under development device.



T-1



DO-41



DO-15



DO-201AD

Sidac

| I _T (RMS) | V _{DRM} V _{RRM} | Part Number | Electrical Characteristics | | | | | | | | di/dt | Package |
|-------------------------|--------------------------------------|-------------|----------------------------|------------------------------------|-----|------|----------------|--|------------------------------------|-----|------------|----------|
| | | | I _{TSM} | V _{BO} at I _{BO} | | | I _H | I _{DRM} @ V _{DRM} T _J = 25 °C | V _{TM} at I _{TM} | | | |
| | | | | min | max | max | | | max | V | | |
| +/- A | +/- V | | +/- A | (v) | (v) | (uA) | (mA) | uA | V | A | (Typ) V/us | |
| 0.9 | 90 | SD09A105D | 4 | 95 | 115 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | T-1 |
| 0.9 | 90 | SD09A120D | 4 | 110 | 130 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | T-1 |
| 0.9 | 90 | SD09A130D | 4 | 120 | 140 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | T-1 |
| 0.9 | 90 | SD09A160D | 4 | 150 | 170 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | T-1 |
| 0.9 | 180 | SD09A220D | 4 | 210 | 230 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | T-1 |
| 0.9 | 180 | SD09A240D | 4 | 220 | 250 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | T-1 |
| 0.9 | 90 | SD09A105E | 4 | 95 | 115 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | DO-41 |
| 0.9 | 90 | SD09A120E | 4 | 110 | 130 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | DO-41 |
| 0.9 | 90 | SD09A130E | 4 | 120 | 140 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | DO-41 |
| 0.9 | 90 | SD09A160E | 4 | 150 | 170 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | DO-41 |
| 0.9 | 180 | SD09A220E | 4 | 210 | 230 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | DO-41 |
| 0.9 | 180 | SD09A240E | 4 | 220 | 250 | 35 | 100 | 5 | 1.5 | 1.0 | 120 | DO-41 |
| 1 | 90 | SD1A120F | 20 | 110 | 130 | 35 | 100 | 10 | 1.5 | 1.0 | 120 | DO-201AD |
| 1 | 180 | SD1A220F | 20 | 210 | 220 | 35 | 100 | 10 | 1.5 | 1.0 | 120 | DO-201AD |
| 1 | 180 | SD1A240F | 20 | 220 | 250 | 35 | 100 | 10 | 1.5 | 1.0 | 120 | DO-201AD |
| 1 | 180 | SD1A240GW | 16 | 210 | 240 | 500 | 50 | 5 | 3 | 1 | 80 | DO-15 |



THYRISTOR SURGE PROTECTIVE DEVICE



U.L. RECOGNIZED
FILE# E219635

SMA

Surface Mount Thyristor Surge Protective Device

| Part Number | Rated Repetitive Off-State Voltage | Off-State Leakage Current @V _{DRM} | Breakover Voltage | On-State Voltage @ I _T =1A | Non-repetitive Peak impulse current @10/1000us | Non-repetitive peak On-state current @8.3ms (one-half cycle) | Breakover Current | | Holding Current | | Package |
|-------------|------------------------------------|---|-------------------|---------------------------------------|--|--|-------------------|----------|-----------------|----------|---------|
| | V _{DRM} | I _{DRM} | V _{BO} | V _T | I _{PP} | I _{TSM} | I _{BO} | | I _H | | |
| | Min (V) | Max (uA) | Max (V) | Max. (V) | (A) | (A) | Min (mA) | Max (mA) | Min (mA) | Max (mA) | |
| TA0640L | 58 | 5 | 77 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA0720L | 65 | 5 | 88 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA0900L | 75 | 5 | 98 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA1100L | 90 | 5 | 130 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA1300L | 120 | 5 | 160 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA1500L | 140 | 5 | 180 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA1800L | 160 | 5 | 220 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA2300L | 190 | 5 | 265 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA2600L | 220 | 5 | 300 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA3100L | 275 | 5 | 350 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA3500L | 320 | 5 | 400 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |
| TA4000L | 360 | 5 | 450 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMA |



U.L. RECOGNIZED
FILE# E219635

SMB

Surface Mount Thyristor Surge Protective Device

| Part Number | Rated Repetitive Off-State Voltage | Off-State Leakage Current @V _{DRM} | Breakover Voltage | On-State Voltage @ I _T =1A | Non-repetitive Peak impulse current @10/1000us | Non-repetitive peak On-state current @8.3ms (one-half cycle) | Breakover Current | | Holding Current | | Package |
|-------------|------------------------------------|---|-------------------|---------------------------------------|--|--|-------------------|----------|-----------------|----------|---------|
| | V _{DRM} | I _{DRM} | V _{BO} | V _T | I _{PP} | I _{TSM} | I _{BO} | | I _H | | |
| | Min (V) | Max (uA) | Max (V) | Max. (V) | (A) | (A) | Min (mA) | Max (mA) | Min (mA) | Max (mA) | |
| TB0640L | 58 | 5 | 77 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB0720L | 65 | 5 | 88 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB0900L | 75 | 5 | 98 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB1100L | 90 | 5 | 130 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB1300L | 120 | 5 | 160 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB1500L | 140 | 5 | 180 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB1800L | 160 | 5 | 220 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB2300L | 190 | 5 | 265 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB2600L | 220 | 5 | 300 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB3100L | 275 | 5 | 350 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB3500L | 320 | 5 | 400 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB4000L | 360 | 5 | 450 | 3.5 | 50 | 25 | 50 | 800 | 150 | 800 | SMB |
| TB0640M | 58 | 5 | 77 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB0720M | 65 | 5 | 88 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB0900M | 75 | 5 | 98 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB1100M | 90 | 5 | 130 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB1300M | 120 | 5 | 160 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB1500M | 140 | 5 | 180 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB1800M | 160 | 5 | 220 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB2300M | 190 | 5 | 265 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB2600M | 220 | 5 | 300 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB3100M | 275 | 5 | 350 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB3500M | 320 | 5 | 400 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB4000M | 360 | 5 | 450 | 3.5 | 80 | 40 | 50 | 800 | 150 | 800 | SMB |
| TB0640H | 58 | 5 | 77 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB0720H | 65 | 5 | 88 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB0900H | 75 | 5 | 98 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB1100H | 90 | 5 | 130 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB1300H | 120 | 5 | 160 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB1500H | 140 | 5 | 180 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB1800H | 160 | 5 | 220 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB2300H | 190 | 5 | 265 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB2600H | 220 | 5 | 300 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB3100H | 275 | 5 | 350 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB3500H | 320 | 5 | 400 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |
| TB4000H | 360 | 5 | 450 | 3.5 | 100 | 50 | 50 | 800 | 150 | 800 | SMB |



TRANSIENT VOLTAGE SUPPRESSOR



DO-216AA



DO-222AA

Transient Voltage Suppressor

| Device Uni-directional | Device Bi-directional | Working Peak Reverse Voltage | Breakdown voltage VBR Volts | | | Maximum Reverse Leakage at V _{RWM} | Maximum Reverse Surge Current | Maximum Reverse Voltage at I _{RSM} (Clamping Voltage) | Package |
|---------------------------|--------------------------|---------------------------------------|--------------------------------|-------|-----------------------|--|--|--|----------|
| | | V _{RWM} (Volts) | Min. | Max. | @I _T (mA) | IR (uA) | I _{RSM} (Amps) | V _{RSM} (Volts) | |
| LT2M5.0A | | 5.0 | 6.40 | 7.07 | 10 | 50 | 21.7 | 9.2 | DO-216AA |
| LT2M12A | | 12.0 | 13.30 | 14.70 | 1 | 1 | 10.1 | 19.9 | DO-216AA |
| LT2M16A | | 16.0 | 17.10 | 18.90 | 1 | 1 | 7.7 | 26.0 | DO-216AA |
| LT2M24A | | 24.0 | 25.7 | 28.4 | 1 | 1 | 5.1 | 38.9 | DO-216AA |
| LT2MF5.0A | | 5.0 | 6.4 | 7.07 | 10 | 50 | 21.7 | 9.2 | DO-222AA |
| LT2MF12A | | 12.0 | 13.3 | 14.7 | 1 | 1 | 10.1 | 19.9 | DO-222AA |
| LT2MF16A | | 16.0 | 17.1 | 18.9 | 1 | 1 | 7.7 | 26.0 | DO-222AA |
| LT2MF24A | | 24.0 | 25.7 | 28.4 | 1 | 1 | 5.1 | 38.9 | DO-222AA |



U.L. RECOGNIZED
FILE# E219635

SMA

Transient Voltage Suppressor

| Device Uni-directional | Device Bi-directional | Working Peak Reverse Voltage | Breakdown voltage VBR Volts | | | Maximum Reverse Leakage at VRWM | Maximum Reverse Surge Current | Maximum Reverse Voltage at IRSM (Clamping Voltage) |
|---------------------------|--------------------------|---------------------------------------|--------------------------------|-------|----------|--|--|--|
| | | VRWM(Volts) | Min. | Max. | @IT(mA) | IR (uA) | IRSM(Amps) | VRSM(Volts) |
| SMAJ4.0 | | 4.0 | 5.40 | 6.50 | 10 | 1000 | 46.5 | 8.6 |
| SMAJ5.0A | SMAJ5.0CA | 5.0 | 6.40 | 7.07 | 10 | 800 | 43.5 | 9.2 |
| SMAJ6.0A | SMAJ6.0CA | 6.0 | 6.67 | 7.37 | 10 | 800 | 38.8 | 10.3 |
| SMAJ6.5A | SMAJ6.5CA | 6.5 | 7.22 | 7.98 | 10 | 500 | 35.7 | 11.2 |
| SMAJ7.0A | SMAJ7.0CA | 7.0 | 7.78 | 8.60 | 10 | 200 | 33.3 | 12.0 |
| SMAJ7.5A | SMAJ7.5CA | 7.5 | 8.33 | 9.21 | 1 | 100 | 31.0 | 12.9 |
| SMAJ8.0A | SMAJ8.0CA | 8.0 | 8.89 | 9.83 | 1 | 50 | 29.4 | 13.6 |
| SMAJ8.5A | SMAJ8.5CA | 8.5 | 9.44 | 10.43 | 1 | 10 | 27.8 | 14.4 |
| SMAJ9.0A | SMAJ9.0CA | 9.0 | 10.0 | 11.1 | 1 | 5 | 26.0 | 15.4 |
| SMAJ10A | SMAJ10CA | 10.0 | 11.1 | 12.3 | 1 | 5 | 23.5 | 17.0 |
| SMAJ11A | SMAJ11CA | 11.0 | 12.2 | 13.5 | 1 | 5 | 22.0 | 18.2 |
| SMAJ12A | SMAJ12CA | 12.0 | 13.3 | 14.7 | 1 | 5 | 20.1 | 19.9 |
| SMAJ13A | SMAJ13CA | 13.0 | 14.4 | 15.9 | 1 | 5 | 18.6 | 21.5 |
| SMAJ14A | SMAJ14CA | 14.0 | 15.6 | 17.2 | 1 | 5 | 17.2 | 23.2 |
| SMAJ15A | SMAJ15CA | 15.0 | 16.7 | 18.5 | 1 | 5 | 16.4 | 24.4 |
| SMAJ16A | SMAJ16CA | 16.0 | 17.8 | 19.7 | 1 | 5 | 15.4 | 26.0 |
| SMAJ17A | SMAJ17CA | 17.0 | 18.9 | 20.9 | 1 | 5 | 14.5 | 27.6 |
| SMAJ18A | SMAJ18CA | 18.0 | 20.0 | 22.1 | 1 | 5 | 13.7 | 29.2 |
| SMAJ20A | SMAJ20CA | 20.0 | 22.2 | 24.5 | 1 | 5 | 12.3 | 32.4 |
| SMAJ22A | SMAJ22CA | 22.0 | 24.4 | 27.0 | 1 | 5 | 11.3 | 35.5 |
| SMAJ24A | SMAJ24CA | 24.0 | 26.7 | 29.5 | 1 | 5 | 10.3 | 38.9 |
| SMAJ26A | SMAJ26CA | 26.0 | 28.9 | 31.9 | 1 | 5 | 9.5 | 42.1 |
| SMAJ28A | SMAJ28CA | 28.0 | 31.1 | 34.4 | 1 | 5 | 8.8 | 45.4 |
| SMAJ30A | SMAJ30CA | 30.0 | 33.3 | 36.8 | 1 | 5 | 8.3 | 48.4 |
| SMAJ33A | SMAJ33CA | 33.0 | 36.7 | 40.6 | 1 | 5 | 7.5 | 53.3 |
| SMAJ36A | SMAJ36CA | 36.0 | 40.0 | 44.2 | 1 | 5 | 6.9 | 58.1 |
| SMAJ40A | SMAJ40CA | 40.0 | 44.4 | 49.1 | 1 | 5 | 6.2 | 64.5 |
| SMAJ43A | SMAJ43CA | 43.0 | 47.8 | 52.8 | 1 | 5 | 5.8 | 69.4 |
| SMAJ45A | SMAJ45CA | 45.0 | 50.0 | 55.3 | 1 | 5 | 5.5 | 72.7 |
| SMAJ48A | SMAJ48CA | 48.0 | 53.3 | 58.9 | 1 | 5 | 5.2 | 77.4 |
| SMAJ51A | SMAJ51CA | 51.0 | 56.7 | 62.7 | 1 | 5 | 4.9 | 82.4 |
| SMAJ54A | SMAJ54CA | 54.0 | 60.0 | 66.3 | 1 | 5 | 4.6 | 87.1 |
| SMAJ58A | SMAJ58CA | 58.0 | 64.4 | 71.2 | 1 | 5 | 4.3 | 93.6 |
| SMAJ60A | SMAJ60CA | 60.0 | 66.7 | 73.7 | 1 | 5 | 4.1 | 96.8 |
| SMAJ64A | SMAJ64CA | 64.0 | 71.1 | 78.6 | 1 | 5 | 3.9 | 103.0 |
| SMAJ70A | SMAJ70CA | 70.0 | 77.8 | 86.0 | 1 | 5 | 3.5 | 113.0 |
| SMAJ75A | SMAJ75CA | 75.0 | 83.3 | 92.1 | 1 | 5 | 3.3 | 121.0 |
| SMAJ78A | SMAJ78CA | 78.0 | 86.7 | 95.8 | 1 | 5 | 3.2 | 126.0 |
| SMAJ85A | SMAJ85CA | 85.0 | 94.4 | 104.3 | 1 | 5 | 2.9 | 137.0 |
| SMAJ90A | SMAJ90CA | 90.0 | 100.0 | 110.5 | 1 | 5 | 2.7 | 146.0 |
| SMAJ100A | SMAJ100CA | 100.0 | 111.0 | 122.7 | 1 | 5 | 2.5 | 162.0 |



U.L. RECOGNIZED

FILE# E219635

SMA

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Working Peak Reverse Voltage | Breakdown voltage VBR Volts | | | Maximum Reverse Leakage at VRWM | Maximum Reverse Surge Current | Maximum Reverse Voltage at IRSM (Clamping Voltage) |
|---------------------------|--------------------------|---------------------------------------|--------------------------------|-------|----------|--|--|--|
| | | VRWM(Volts) | Min. | Max. | @IT(mA) | IR (uA) | IRSM(Amps) | VRSM(Volts) |
| SMAJ110A | SMAJ110CA | 110.0 | 122.0 | 134.8 | 1 | 5 | 2.3 | 177.0 |
| SMAJ120A | SMAJ120CA | 120.0 | 133.0 | 147.0 | 1 | 5 | 2.1 | 193.0 |
| SMAJ130A | SMAJ130CA | 130.0 | 144.0 | 159.2 | 1 | 5 | 1.9 | 209.0 |
| SMAJ150A | SMAJ150CA | 150.0 | 167.0 | 184.6 | 1 | 5 | 1.6 | 243.0 |
| SMAJ160A | SMAJ160CA | 160.0 | 178.0 | 196.7 | 1 | 5 | 1.5 | 259.0 |
| SMAJ170A | SMAJ170CA | 170.0 | 189.0 | 208.9 | 1 | 5 | 1.5 | 275.0 |
| SMAJ188A | SMAJ188CA | 188.0 | 209.0 | 231.0 | 1 | 5 | 1.2 | 328.0 |

NOTE :

- 1) Suffix 'A ' denotes 5% tolerance device, no suffix denotes 10 % tolerance device.
- 2) Add suffix 'C ' or ' CA ' after part number to specify Bi-directional devices.
- 3) For Bi-Directional devices having VR of 10 volts and under, the IR limit is double .



U.L. RECOGNIZED
FILE# E219635

SMB

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Working Peak Reverse Voltage | Breakdown voltage VBR Volts | | | Maximum Reverse Leakage at VRWM | Maximum Reverse Surge Current | Maximum Reverse Voltage at IRSM (Clamping Voltage) |
|---------------------------|--------------------------|---------------------------------------|--------------------------------|-------|----------|--|--|--|
| | | VRWM(Volts) | Min. | Max. | @IT(mA) | IR (uA) | IRSM(Amps) | VRSM(Volts) |
| SMBJ5.0A | SMBJ5.0CA | 5.0 | 6.40 | 7.07 | 10 | 800 | 65.2 | 9.2 |
| SMBJ6.0A | SMBJ6.0CA | 6.0 | 6.67 | 7.37 | 10 | 800 | 58.3 | 10.3 |
| SMBJ6.5A | SMBJ6.5CA | 6.5 | 7.22 | 7.98 | 10 | 500 | 53.6 | 11.2 |
| SMBJ7.0A | SMBJ7.0CA | 7.0 | 7.78 | 8.60 | 10 | 200 | 50.0 | 12.0 |
| SMBJ7.5A | SMBJ7.5CA | 7.5 | 8.33 | 9.21 | 1 | 100 | 46.5 | 12.9 |
| SMBJ8.0A | SMBJ8.0CA | 8.0 | 8.89 | 9.83 | 1 | 50 | 44.1 | 13.6 |
| SMBJ8.5A | SMBJ8.5CA | 8.5 | 9.44 | 10.43 | 1 | 20 | 41.7 | 14.4 |
| SMBJ9.0A | SMBJ9.0CA | 9.0 | 10.0 | 11.1 | 1 | 10 | 39.0 | 15.4 |
| SMBJ10A | SMBJ10CA | 10.0 | 11.1 | 12.3 | 1 | 5 | 35.3 | 17.0 |
| SMBJ11A | SMBJ11CA | 11.0 | 12.2 | 13.5 | 1 | 5 | 33.0 | 18.2 |
| SMBJ12A | SMBJ12CA | 12.0 | 13.3 | 14.7 | 1 | 5 | 30.2 | 19.9 |
| SMBJ13A | SMBJ13CA | 13.0 | 14.4 | 15.9 | 1 | 5 | 27.9 | 21.5 |
| SMBJ14A | SMBJ14CA | 14.0 | 15.6 | 17.2 | 1 | 5 | 25.9 | 23.2 |
| SMBJ15A | SMBJ15CA | 15.0 | 16.7 | 18.5 | 1 | 5 | 24.6 | 24.4 |
| SMBJ16A | SMBJ16CA | 16.0 | 17.8 | 19.7 | 1 | 5 | 23.1 | 26.0 |
| SMBJ17A | SMBJ17CA | 17.0 | 18.9 | 20.9 | 1 | 5 | 21.7 | 27.6 |
| SMBJ18A | SMBJ18CA | 18.0 | 20.0 | 22.1 | 1 | 5 | 20.5 | 29.2 |
| SMBJ20A | SMBJ20CA | 20.0 | 22.2 | 24.5 | 1 | 5 | 18.5 | 32.4 |
| SMBJ22A | SMBJ22CA | 22.0 | 24.4 | 27.0 | 1 | 5 | 16.9 | 35.5 |
| SMBJ24A | SMBJ24CA | 24.0 | 26.7 | 29.5 | 1 | 5 | 15.4 | 38.9 |
| SMBJ26A | SMBJ26CA | 26.0 | 28.9 | 31.9 | 1 | 5 | 14.3 | 42.1 |
| SMBJ28A | SMBJ28CA | 28.0 | 31.1 | 34.4 | 1 | 5 | 13.2 | 45.4 |
| SMBJ30A | SMBJ30CA | 30.0 | 33.3 | 36.8 | 1 | 5 | 12.4 | 48.4 |
| SMBJ33A | SMBJ33CA | 33.0 | 36.7 | 40.6 | 1 | 5 | 11.3 | 53.3 |
| SMBJ36A | SMBJ36CA | 36.0 | 40.0 | 44.2 | 1 | 5 | 10.3 | 58.1 |
| SMBJ40A | SMBJ40CA | 40.0 | 44.4 | 49.1 | 1 | 5 | 9.3 | 64.5 |
| SMBJ43A | SMBJ43CA | 43.0 | 47.8 | 52.8 | 1 | 5 | 8.6 | 69.4 |
| SMBJ45A | SMBJ45CA | 45.0 | 50.0 | 55.3 | 1 | 5 | 8.3 | 72.7 |
| SMBJ48A | SMBJ48CA | 48.0 | 53.3 | 58.9 | 1 | 5 | 7.8 | 77.4 |
| SMBJ51A | SMBJ51CA | 51.0 | 56.7 | 62.7 | 1 | 5 | 7.3 | 82.4 |
| SMBJ54A | SMBJ54CA | 54.0 | 60.0 | 66.3 | 1 | 5 | 6.9 | 87.1 |
| SMBJ58A | SMBJ58CA | 58.0 | 64.4 | 71.2 | 1 | 5 | 6.4 | 93.6 |
| SMBJ60A | SMBJ60CA | 60.0 | 66.7 | 73.7 | 1 | 5 | 6.2 | 96.8 |
| SMBJ64A | SMBJ64CA | 64.0 | 71.1 | 78.6 | 1 | 5 | 5.8 | 103.0 |
| SMBJ70A | SMBJ70CA | 70.0 | 77.8 | 86.0 | 1 | 5 | 5.3 | 113.0 |
| SMBJ75A | SMBJ75CA | 75.0 | 83.3 | 92.1 | 1 | 5 | 5.0 | 121.0 |
| SMBJ78A | SMBJ78CA | 78.0 | 86.7 | 95.8 | 1 | 5 | 4.8 | 126.0 |
| SMBJ85A | SMBJ85CA | 85.0 | 94.4 | 104.3 | 1 | 5 | 4.4 | 137.0 |
| SMBJ90A | SMBJ90CA | 90.0 | 100.0 | 110.5 | 1 | 5 | 4.1 | 146.0 |
| SMBJ100A | SMBJ100CA | 100.0 | 111.0 | 122.7 | 1 | 5 | 3.7 | 162.0 |



U.L. RECOGNIZED
FILE# E219635

SMB

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Working Peak Reverse Voltage | Breakdown voltage VBR Volts | | | Maximum Reverse Leakage at VRWM | Maximum Reverse Surge Current | Maximum Reverse Voltage at IRSM (Clamping Voltage) |
|---------------------------|--------------------------|---------------------------------------|--------------------------------|-------|----------|--|--|--|
| | | VRWM(Volts) | Min. | Max. | @IT(mA) | IR (uA) | IRSM(Amps) | VRSM(Volts) |
| SMBJ110A | SMBJ110CA | 110.0 | 122.0 | 134.8 | 1 | 5 | 3.4 | 177.0 |
| SMBJ120A | SMBJ120CA | 120.0 | 133.0 | 147.0 | 1 | 5 | 3.1 | 193.0 |
| SMBJ130A | SMBJ130CA | 130.0 | 144.0 | 159.2 | 1 | 5 | 2.9 | 209.0 |
| SMBJ150A | SMBJ150CA | 150.0 | 167.0 | 184.6 | 1 | 5 | 2.5 | 243.0 |
| SMBJ160A | SMBJ160CA | 160.0 | 178.0 | 196.7 | 1 | 5 | 2.3 | 259.0 |
| SMBJ170A | SMBJ170CA | 170.0 | 189.0 | 208.9 | 1 | 5 | 2.2 | 275.0 |

NOTE :

- 1) Suffix 'A ' denotes 5% tolerance device.
- 2) Add suffix 'C 'or' CA ' after part number to specify Bi-directional devices.
- 3) For Bi-Directional devices having VR of 10 volts and under, the IR limit is double .



U.L. RECOGNIZED
FILE# E219635

SMC

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Working Peak Reverse Voltage | Breakdown voltage VBR Volts | | | Maximum Reverse Leakage at VRWM | Maximum Reverse Surge Current | Maximum Reverse Voltage at IRSM (Clamping Voltage) |
|---------------------------|--------------------------|---------------------------------------|--------------------------------|-------|----------|--|--|--|
| | | VRWM(Volts) | Min. | Max. | @IT(mA) | IR (uA) | IRSM(Amps) | VRSM(Volts) |
| SMCJ5.0A | SMCJ5.0CA | 5.0 | 6.40 | 7.07 | 10 | 1000 | 163.0 | 9.2 |
| SMCJ6.0A | SMCJ6.0CA | 6.0 | 6.67 | 7.37 | 10 | 1000 | 145.6 | 10.3 |
| SMCJ6.5A | SMCJ6.5CA | 6.5 | 7.22 | 7.98 | 10 | 500 | 133.9 | 11.2 |
| SMCJ7.0A | SMCJ7.0CA | 7.0 | 7.78 | 8.60 | 10 | 200 | 125.0 | 12.0 |
| SMCJ7.5A | SMCJ7.5CA | 7.5 | 8.33 | 9.21 | 1 | 100 | 116.3 | 12.9 |
| SMCJ8.0A | SMCJ8.0CA | 8.0 | 8.89 | 9.83 | 1 | 50 | 110.3 | 13.6 |
| SMCJ8.5A | SMCJ8.5CA | 8.5 | 9.44 | 10.43 | 1 | 20 | 104.2 | 14.4 |
| SMCJ9.0A | SMCJ9.0CA | 9.0 | 10.0 | 11.1 | 1 | 10 | 97.4 | 15.4 |
| SMCJ10A | SMCJ10CA | 10.0 | 11.1 | 12.3 | 1 | 5 | 88.2 | 17.0 |
| SMCJ11A | SMCJ11CA | 11.0 | 12.2 | 13.5 | 1 | 5 | 82.4 | 18.2 |
| SMCJ12A | SMCJ12CA | 12.0 | 13.3 | 14.7 | 1 | 5 | 75.4 | 19.9 |
| SMCJ13A | SMCJ13CA | 13.0 | 14.4 | 15.9 | 1 | 5 | 69.8 | 21.5 |
| SMCJ14A | SMCJ14CA | 14.0 | 15.6 | 17.2 | 1 | 5 | 64.7 | 23.2 |
| SMCJ15A | SMCJ15CA | 15.0 | 16.7 | 18.5 | 1 | 5 | 61.5 | 24.4 |
| SMCJ16A | SMCJ16CA | 16.0 | 17.8 | 19.7 | 1 | 5 | 57.7 | 26.0 |
| SMCJ17A | SMCJ17CA | 17.0 | 18.9 | 20.9 | 1 | 5 | 54.3 | 27.6 |
| SMCJ18A | SMCJ18CA | 18.0 | 20.0 | 22.1 | 1 | 5 | 51.4 | 29.2 |
| SMCJ20A | SMCJ20CA | 20.0 | 22.2 | 24.5 | 1 | 5 | 46.3 | 32.4 |
| SMCJ22A | SMCJ22CA | 22.0 | 24.4 | 27.0 | 1 | 5 | 42.3 | 35.5 |
| SMCJ24A | SMCJ24CA | 24.0 | 26.7 | 29.5 | 1 | 5 | 38.6 | 38.9 |
| SMCJ26A | SMCJ26CA | 26.0 | 28.9 | 31.9 | 1 | 5 | 35.6 | 42.1 |
| SMCJ28A | SMCJ28CA | 28.0 | 31.1 | 34.4 | 1 | 5 | 33.0 | 45.4 |
| SMCJ30A | SMCJ30CA | 30.0 | 33.3 | 36.8 | 1 | 5 | 31.0 | 48.4 |
| SMCJ33A | SMCJ33CA | 33.0 | 36.7 | 40.6 | 1 | 5 | 28.1 | 53.3 |
| SMCJ36A | SMCJ36CA | 36.0 | 40.0 | 44.2 | 1 | 5 | 25.8 | 58.1 |
| SMCJ40A | SMCJ40CA | 40.0 | 44.4 | 49.1 | 1 | 5 | 23.3 | 64.5 |
| SMCJ43A | SMCJ43CA | 43.0 | 47.8 | 52.8 | 1 | 5 | 21.6 | 69.4 |
| SMCJ45A | SMCJ45CA | 45.0 | 50.0 | 55.3 | 1 | 5 | 20.6 | 72.7 |
| SMCJ48A | SMCJ48CA | 48.0 | 53.3 | 58.9 | 1 | 5 | 19.4 | 77.4 |
| SMCJ51A | SMCJ51CA | 51.0 | 56.7 | 62.7 | 1 | 5 | 18.2 | 82.4 |
| SMCJ54A | SMCJ54CA | 54.0 | 60.0 | 66.3 | 1 | 5 | 17.2 | 87.1 |
| SMCJ58A | SMCJ58CA | 58.0 | 64.4 | 71.2 | 1 | 5 | 16.0 | 93.6 |
| SMCJ60A | SMCJ60CA | 60.0 | 66.7 | 73.7 | 1 | 5 | 15.5 | 96.8 |
| SMCJ64A | SMCJ64CA | 64.0 | 71.1 | 78.6 | 1 | 5 | 14.6 | 103.0 |
| SMCJ70A | SMCJ70CA | 70.0 | 77.8 | 86.0 | 1 | 5 | 13.3 | 113.0 |
| SMCJ75A | SMCJ75CA | 75.0 | 83.3 | 92.1 | 1 | 5 | 12.4 | 121.0 |
| SMCJ78A | SMCJ78CA | 78.0 | 86.7 | 95.8 | 1 | 5 | 11.9 | 126.0 |
| SMCJ85A | SMCJ85CA | 85.0 | 94.4 | 104.3 | 1 | 5 | 10.9 | 137.0 |
| SMCJ90A | SMCJ90CA | 90.0 | 100.0 | 110.5 | 1 | 5 | 10.3 | 146.0 |
| SMCJ100A | SMCJ100CA | 100.0 | 111.0 | 122.7 | 1 | 5 | 9.3 | 162.0 |



SMC



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Working Peak Reverse Voltage | Breakdown voltage VBR Volts | | | Maximum Reverse Leakage at VRWM | Maximum Reverse Surge Current | Maximum Reverse Voltage at IRSM (Clamping Voltage) |
|---------------------------|--------------------------|---------------------------------------|--------------------------------|-------|----------|--|--|--|
| | | VRWM(Volts) | Min. | Max. | @IT(mA) | IR (uA) | IRSM(Amps) | VRSM(Volts) |
| SMCJ110A | SMCJ110CA | 110.0 | 122.0 | 134.8 | 1 | 5 | 8.5 | 177.0 |
| SMCJ120A | SMCJ120CA | 120.0 | 133.0 | 147.0 | 1 | 5 | 7.8 | 193.0 |
| SMCJ130A | SMCJ130CA | 130.0 | 144.0 | 159.2 | 1 | 5 | 7.2 | 209.0 |
| SMCJ150A | SMCJ150CA | 150.0 | 167.0 | 184.6 | 1 | 5 | 6.2 | 243.0 |
| SMCJ160A | SMCJ160CA | 160.0 | 178.0 | 196.7 | 1 | 5 | 5.8 | 259.0 |
| SMCJ170A | SMCJ170CA | 170.0 | 189.0 | 208.9 | 1 | 5 | 5.5 | 275.0 |

NOTE :

- 1) Suffix 'A ' denotes 5% tolerance device.
- 2) Add suffix 'C 'or ' CA ' after part number to specify Bi-directional devices.
- 3) For Bi-Directional devices having VR of 10 volts and under, the IR limit is double .



U.L. RECOGNIZED
FILE# E219635

DO-41

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | VR (V) | Min (V) | Max (V) | It (mA) | IR (uA) | Ipp (A) | Vc (V) |
| AXIAL LEAD TVS | | | | | | | | |
| P4KE6.8A | P4KE6.8CA | 5.8 | 6.45 | 7.13 | 10 | 1000 | 38.1 | 10.5 |
| P4KE7.5A | P4KE7.5CA | 6.4 | 7.13 | 7.88 | 10 | 500 | 35.4 | 11.3 |
| P4KE8.2A | P4KE8.2CA | 7.0 | 7.79 | 8.61 | 10 | 200 | 33.1 | 12.1 |
| P4KE9.1A | P4KE9.1CA | 7.8 | 8.65 | 9.56 | 1 | 50 | 29.9 | 13.4 |
| P4KE10A | P4KE10CA | 8.6 | 9.50 | 10.50 | 1 | 10 | 27.6 | 14.5 |
| P4KE11A | P4KE11CA | 9.4 | 10.5 | 11.6 | 1 | 5 | 25.6 | 15.6 |
| P4KE12A | P4KE12CA | 10.2 | 11.4 | 12.6 | 1 | 5 | 24.0 | 16.7 |
| P4KE13A | P4KE13CA | 11.1 | 12.4 | 13.7 | 1 | 5 | 22.0 | 18.2 |
| P4KE15A | P4KE15CA | 12.8 | 14.3 | 15.8 | 1 | 5 | 18.9 | 21.2 |
| P4KE16A | P4KE16CA | 13.6 | 15.2 | 16.8 | 1 | 5 | 17.8 | 22.5 |
| P4KE18A | P4KE18CA | 15.3 | 17.1 | 18.9 | 1 | 5 | 15.9 | 25.2 |
| P4KE20A | P4KE20CA | 17.1 | 19.0 | 21.0 | 1 | 5 | 14.4 | 27.7 |
| P4KE22A | P4KE22CA | 18.8 | 20.9 | 23.1 | 1 | 5 | 13.1 | 30.6 |
| P4KE24A | P4KE24CA | 20.5 | 22.8 | 25.2 | 1 | 5 | 12.0 | 33.2 |
| P4KE27A | P4KE27CA | 23.1 | 25.7 | 28.4 | 1 | 5 | 10.7 | 37.5 |
| P4KE30A | P4KE30CA | 25.6 | 28.5 | 31.5 | 1 | 5 | 9.7 | 41.4 |
| P4KE33A | P4KE33CA | 28.2 | 31.4 | 34.7 | 1 | 5 | 8.8 | 45.7 |
| P4KE36A | P4KE36CA | 30.8 | 34.2 | 37.8 | 1 | 5 | 8.0 | 49.9 |
| P4KE39A | P4KE39CA | 33.3 | 37.1 | 41.0 | 1 | 5 | 7.4 | 53.9 |
| P4KE43A | P4KE43CA | 36.8 | 40.9 | 45.2 | 1 | 5 | 6.7 | 59.3 |
| P4KE47A | P4KE47CA | 40.2 | 44.7 | 49.4 | 1 | 5 | 6.2 | 64.8 |
| P4KE51A | P4KE51CA | 43.6 | 48.5 | 53.6 | 1 | 5 | 5.7 | 70.1 |
| P4KE56A | P4KE56CA | 47.8 | 53.2 | 58.8 | 1 | 5 | 5.2 | 77.0 |
| P4KE62A | P4KE62CA | 53.0 | 58.9 | 65.1 | 1 | 5 | 4.7 | 85.0 |
| P4KE68A | P4KE68CA | 58.1 | 64.6 | 71.4 | 1 | 5 | 4.3 | 92.0 |
| P4KE75A | P4KE75CA | 64.7 | 71.3 | 78.8 | 1 | 5 | 3.9 | 103.0 |
| P4KE82A | P4KE82CA | 70.1 | 77.9 | 86.1 | 1 | 5 | 3.5 | 113.0 |
| P4KE91A | P4KE91CA | 77.8 | 86.5 | 95.6 | 1 | 5 | 3.2 | 125.0 |
| P4KE100A | P4KE100CA | 85.5 | 95.0 | 105.0 | 1 | 5 | 2.9 | 137.0 |
| P4KE110A | P4KE110CA | 94.0 | 105.0 | 116.1 | 1 | 5 | 2.6 | 152.0 |
| P4KE120A | P4KE120CA | 102.0 | 114.0 | 126.0 | 1 | 5 | 2.4 | 165.0 |
| P4KE130A | P4KE130CA | 111.0 | 124.0 | 137.1 | 1 | 5 | 2.2 | 179.0 |
| P4KE150A | P4KE150CA | 128.0 | 143.0 | 158.1 | 1 | 5 | 1.9 | 207.0 |
| P4KE160A | P4KE160CA | 136.0 | 152.0 | 168.0 | 1 | 5 | 1.8 | 219.0 |
| P4KE170A | P4KE170CA | 145.0 | 162.0 | 179.1 | 1 | 5 | 1.7 | 234.0 |
| P4KE180A | P4KE180CA | 154.0 | 171.0 | 189.0 | 1 | 5 | 1.6 | 246.0 |
| P4KE200A | P4KE200CA | 171.0 | 190.0 | 210.0 | 1 | 5 | 1.5 | 274.0 |
| P4KE220A | P4KE220CA | 185.0 | 209.0 | 231.0 | 1 | 5 | 1.3 | 328.0 |
| P4KE250A | P4KE250CA | 214.0 | 237.0 | 262.0 | 1 | 5 | 1.2 | 344.0 |



DO-41



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | | VR (V) | Min (V) | Max (V) | It (mA) | | |
| P4KE300A | P4KE300CA | 256.0 | 285.0 | 315.0 | 1 | 5 | 1.0 | 414.0 |
| P4KE350A | P4KE350CA | 300.0 | 332.0 | 367.0 | 1 | 5 | 0.83 | 482.0 |
| P4KE400A | P4KE400CA | 342.0 | 380.0 | 420.0 | 1 | 5 | 0.73 | 548.0 |
| P4KE440A | P4KE440CA | 376.0 | 418.0 | 462.0 | 1 | 5 | 0.67 | 600.0 |

NOTE:

Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device .

For bidirectional devices having VR of 10 volts and under, the IR limit is doubled .



U.L. RECOGNIZED
FILE# E219635

DO-15

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | I _R (uA) | I _{pp} (A) | V _c (V) |
| SA5.0A | SA5.0CA | 5.0 | 6.40 | 7.07 | 10 | 600 | 54.3 | 9.2 |
| SA6.0A | SA6.0CA | 6.0 | 6.67 | 7.37 | 10 | 600 | 48.5 | 10.3 |
| SA6.5A | SA6.5CA | 6.5 | 7.22 | 7.98 | 10 | 400 | 44.6 | 11.2 |
| SA7.0A | SA7.0CA | 7.0 | 7.78 | 8.60 | 10 | 150 | 41.7 | 12.0 |
| SA7.5A | SA7.5CA | 7.5 | 8.33 | 9.21 | 1 | 50 | 38.8 | 12.9 |
| SA8.0A | SA8.0CA | 8.0 | 8.89 | 9.83 | 1 | 25 | 36.8 | 13.6 |
| SA8.5A | SA8.5CA | 8.5 | 9.44 | 10.43 | 1 | 10 | 34.7 | 14.4 |
| SA9.0A | SA9.0CA | 9.0 | 10.0 | 11.1 | 1 | 5 | 32.5 | 15.4 |
| SA10A | SA10CA | 10.0 | 11.1 | 12.3 | 1 | 3 | 29.4 | 17.0 |
| SA11A | SA11CA | 11.0 | 12.2 | 13.5 | 1 | 3 | 27.5 | 18.2 |
| SA12A | SA12CA | 12.0 | 13.3 | 14.7 | 1 | 3 | 25.1 | 19.9 |
| SA13A | SA13CA | 13.0 | 14.4 | 15.9 | 1 | 3 | 23.3 | 21.5 |
| SA14A | SA14CA | 14.0 | 15.6 | 17.2 | 1 | 3 | 21.6 | 23.2 |
| SA15A | SA15CA | 15.0 | 16.7 | 18.5 | 1 | 3 | 20.5 | 24.4 |
| SA16A | SA16CA | 16.0 | 17.8 | 19.7 | 1 | 3 | 19.2 | 26.0 |
| SA17A | SA17CA | 17.0 | 18.9 | 20.9 | 1 | 3 | 18.1 | 27.6 |
| SA18A | SA18CA | 18.0 | 20.0 | 22.1 | 1 | 3 | 17.1 | 29.2 |
| SA20A | SA20CA | 20.0 | 22.2 | 24.5 | 1 | 3 | 15.4 | 32.4 |
| SA22A | SA22CA | 22.0 | 24.4 | 27.0 | 1 | 3 | 14.1 | 35.5 |
| SA24A | SA24CA | 24.0 | 26.7 | 29.5 | 1 | 3 | 12.9 | 38.9 |
| SA26A | SA26CA | 26.0 | 28.9 | 31.9 | 1 | 3 | 11.9 | 42.1 |
| SA28A | SA28CA | 28.0 | 31.1 | 34.4 | 1 | 3 | 11.0 | 45.4 |
| SA30A | SA30CA | 30.0 | 33.3 | 36.8 | 1 | 3 | 10.3 | 48.4 |
| SA33A | SA33CA | 33.0 | 36.7 | 40.6 | 1 | 3 | 9.4 | 53.3 |
| SA36A | SA36CA | 36.0 | 40.0 | 44.2 | 1 | 3 | 8.6 | 58.1 |
| SA40A | SA40CA | 40.0 | 44.4 | 49.1 | 1 | 3 | 7.8 | 64.5 |
| SA43A | SA43CA | 43.0 | 47.8 | 52.8 | 1 | 3 | 7.2 | 69.4 |
| SA45A | SA45CA | 45.0 | 50.0 | 55.3 | 1 | 3 | 6.9 | 72.7 |
| SA48A | SA48CA | 48.0 | 53.3 | 58.9 | 1 | 3 | 6.5 | 77.4 |
| SA51A | SA51CA | 51.0 | 56.7 | 62.7 | 1 | 3 | 6.1 | 82.4 |
| SA54A | SA54CA | 54.0 | 60.0 | 66.3 | 1 | 3 | 5.7 | 87.1 |
| SA58A | SA58CA | 58.0 | 64.4 | 71.2 | 1 | 3 | 5.3 | 93.6 |
| SA60A | SA60CA | 60.0 | 66.7 | 73.7 | 1 | 3 | 5.2 | 96.8 |
| SA64A | SA64CA | 64.0 | 71.1 | 78.6 | 1 | 3 | 4.9 | 103.0 |
| SA70A | SA70CA | 70.0 | 77.8 | 86.0 | 1 | 3 | 4.4 | 113.0 |
| SA75A | SA75CA | 75.0 | 83.3 | 92.1 | 1 | 3 | 4.1 | 121.0 |
| SA78A | SA78CA | 78.0 | 86.7 | 95.8 | 1 | 3 | 4.0 | 126.0 |
| SA85A | SA85CA | 85.0 | 94.4 | 104.3 | 1 | 3 | 3.6 | 137.0 |
| SA90A | SA90CA | 90.0 | 100.0 | 110.5 | 1 | 3 | 3.4 | 146.0 |
| SA100A | SA100CA | 100.0 | 111.0 | 122.7 | 1 | 3 | 3.1 | 162.0 |



DO-15



U.L. RECOGNIZED

FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | I _R (uA) | I _{pp} (A) | V _c (V) |
| SA110A | SA110CA | 110.0 | 122.0 | 134.8 | 1 | 3 | 2.8 | 177.0 |
| SA120A | SA120CA | 120.0 | 133.0 | 147.0 | 1 | 3 | 2.6 | 193.0 |
| SA130A | SA130CA | 130.0 | 144.0 | 159.2 | 1 | 3 | 2.4 | 209.0 |
| SA150A | SA150CA | 150.0 | 167.0 | 184.6 | 1 | 3 | 2.1 | 243.0 |
| SA160A | SA160CA | 160.0 | 178.0 | 196.7 | 1 | 3 | 1.9 | 259.0 |
| SA170A | SA170CA | 170.0 | 189.0 | 208.9 | 1 | 3 | 1.8 | 275.0 |

NOTE:

Suffix'C' denotes Bi-directional device. Suffix'A' denotes 5% tolerance device .

For Bi-directional devices having VR of 10 volts and under, the IR limit is doubled .



DO-15



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | I _R (uA) | I _{pp} (A) | V _c (V) |
| P6KE6.8A | P6KE6.8CA | 5.8 | 6.45 | 7.13 | 10 | 1000 | 57.1 | 10.5 |
| P6KE7.5A | P6KE7.5CA | 6.4 | 7.13 | 7.88 | 10 | 500 | 53.1 | 11.3 |
| P6KE8.2A | P6KE8.2CA | 7.0 | 7.79 | 8.61 | 10 | 200 | 49.6 | 12.1 |
| P6KE9.1A | P6KE9.1CA | 7.8 | 8.65 | 9.56 | 1 | 50 | 44.8 | 13.4 |
| P6KE10A | P6KE10CA | 8.6 | 9.50 | 10.50 | 1 | 10 | 41.4 | 14.5 |
| P6KE11A | P6KE11CA | 9.4 | 10.5 | 11.6 | 1 | 5 | 38.5 | 15.6 |
| P6KE12A | P6KE12CA | 10.2 | 11.4 | 12.6 | 1 | 5 | 35.9 | 16.7 |
| P6KE13A | P6KE13CA | 11.1 | 12.4 | 13.7 | 1 | 5 | 33.0 | 18.2 |
| P6KE15A | P6KE15CA | 12.8 | 14.3 | 15.8 | 1 | 5 | 28.3 | 21.2 |
| P6KE16A | P6KE16CA | 13.6 | 15.2 | 16.8 | 1 | 5 | 26.7 | 22.5 |
| P6KE18A | P6KE18CA | 15.3 | 17.1 | 18.9 | 1 | 5 | 23.8 | 25.2 |
| P6KE20A | P6KE20CA | 17.1 | 19.0 | 21.0 | 1 | 5 | 21.7 | 27.7 |
| P6KE22A | P6KE22CA | 18.8 | 20.9 | 23.1 | 1 | 5 | 19.6 | 30.6 |
| P6KE24A | P6KE24CA | 20.5 | 22.8 | 25.2 | 1 | 5 | 18.1 | 33.2 |
| P6KE27A | P6KE27CA | 23.1 | 25.7 | 28.4 | 1 | 5 | 16.0 | 37.5 |
| P6KE30A | P6KE30CA | 25.6 | 28.5 | 31.5 | 1 | 5 | 14.5 | 41.4 |
| P6KE33A | P6KE33CA | 28.2 | 31.4 | 34.7 | 1 | 5 | 13.1 | 45.7 |
| P6KE36A | P6KE36CA | 30.8 | 34.2 | 37.8 | 1 | 5 | 12.0 | 49.9 |
| P6KE39A | P6KE39CA | 33.3 | 37.1 | 41.0 | 1 | 5 | 11.1 | 53.9 |
| P6KE43A | P6KE43CA | 36.8 | 40.9 | 45.2 | 1 | 5 | 10.1 | 59.3 |
| P6KE47A | P6KE47CA | 40.2 | 44.7 | 49.4 | 1 | 5 | 9.3 | 64.8 |
| P6KE51A | P6KE51CA | 43.6 | 48.5 | 53.6 | 1 | 5 | 8.6 | 70.1 |
| P6KE56A | P6KE56CA | 47.8 | 53.2 | 58.8 | 1 | 5 | 7.8 | 77.0 |
| P6KE62A | P6KE62CA | 53.0 | 58.9 | 65.1 | 1 | 5 | 7.1 | 85.0 |
| P6KE68A | P6KE68CA | 58.1 | 64.6 | 71.4 | 1 | 5 | 6.5 | 92.0 |
| P6KE75A | P6KE75CA | 64.7 | 71.3 | 78.8 | 1 | 5 | 5.8 | 103.0 |
| P6KE82A | P6KE82CA | 70.1 | 77.9 | 86.1 | 1 | 5 | 5.3 | 113.0 |
| P6KE91A | P6KE91CA | 77.8 | 86.5 | 95.6 | 1 | 5 | 4.8 | 125.0 |
| P6KE100A | P6KE100CA | 85.5 | 95.0 | 105.0 | 1 | 5 | 4.4 | 137.0 |
| P6KE110A | P6KE110CA | 94.0 | 105.0 | 116.1 | 1 | 5 | 3.9 | 152.0 |
| P6KE120A | P6KE120CA | 102.0 | 114.0 | 126.0 | 1 | 5 | 3.6 | 165.0 |
| P6KE130A | P6KE130CA | 111.0 | 124.0 | 137.1 | 1 | 5 | 3.4 | 179.0 |
| P6KE150A | P6KE150CA | 128.0 | 143.0 | 158.1 | 1 | 5 | 2.9 | 207.0 |
| P6KE160A | P6KE160CA | 136.0 | 152.0 | 168.0 | 1 | 5 | 2.7 | 219.0 |
| P6KE170A | P6KE170CA | 145.0 | 162.0 | 179.1 | 1 | 5 | 2.6 | 234.0 |
| P6KE180A | P6KE180CA | 154.0 | 171.0 | 189.0 | 1 | 5 | 2.4 | 246.0 |
| P6KE200A | P6KE200CA | 171.0 | 190.0 | 210.0 | 1 | 5 | 2.2 | 274.0 |
| P6KE220A | P6KE220CA | 185.0 | 209.0 | 231.0 | 1 | 5 | 1.8 | 328.0 |
| P6KE250A | P6KE250CA | 214.0 | 237.0 | 262.0 | 1 | 5 | 1.7 | 344.0 |
| P6KE300A | P6KE300CA | 256.0 | 285.0 | 315.0 | 1 | 5 | 1.4 | 414.0 |



U.L. RECOGNIZED
FILE# E219635

DO-15

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | I _R (uA) | I _{pp} (A) | V _c (V) |
| P6KE350A | P6KE350CA | 300.0 | 332.0 | 367.0 | 1 | 5 | 1.2 | 482.0 |
| P6KE400A | P6KE400CA | 342.0 | 380.0 | 420.0 | 1 | 5 | 1.1 | 548.0 |
| P6KE440A | P6KE440CA | 376.0 | 418.0 | 462.0 | 1 | 5 | 1.0 | 600.0 |
| P6KE550A | P6KE550CA | 467.5 | 522.5 | 577.5 | 1 | 4 | 0.80 | 753.5 |

NOTE:

Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device .

For bidirectional devices having VR of 10 volts and under, the IR limit is doubled .



U.L. RECOGNIZED
FILE# E219635

DO-201

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | I _R (uA) | I _{pp} (A) | V _c (V) |
| 1.5KE6.8A | 1.5KE6.8CA | 5.8 | 6.45 | 7.13 | 10 | 1000 | 142.9 | 10.5 |
| 1.5KE7.5A | 1.5KE7.5CA | 6.4 | 7.13 | 7.88 | 10 | 500 | 132.7 | 11.3 |
| 1.5KE8.2A | 1.5KE8.2CA | 7.0 | 7.79 | 8.61 | 10 | 200 | 124.0 | 12.1 |
| 1.5KE9.1A | 1.5KE9.1CA | 7.8 | 8.65 | 9.56 | 1 | 50 | 111.9 | 13.4 |
| 1.5KE10A | 1.5KE10CA | 8.6 | 9.50 | 10.50 | 1 | 10 | 103.4 | 14.5 |
| 1.5KE11A | 1.5KE11CA | 9.4 | 10.5 | 11.6 | 1 | 5 | 96.2 | 15.6 |
| 1.5KE12A | 1.5KE12CA | 10.2 | 11.4 | 12.6 | 1 | 5 | 89.8 | 16.7 |
| 1.5KE13A | 1.5KE13CA | 11.1 | 12.4 | 13.7 | 1 | 5 | 82.4 | 18.2 |
| 1.5KE15A | 1.5KE15CA | 12.8 | 14.3 | 15.8 | 1 | 5 | 70.8 | 21.2 |
| 1.5KE16A | 1.5KE16CA | 13.6 | 15.2 | 16.8 | 1 | 5 | 66.7 | 22.5 |
| 1.5KE18A | 1.5KE18CA | 15.3 | 17.1 | 18.9 | 1 | 5 | 59.5 | 25.2 |
| 1.5KE20A | 1.5KE20CA | 17.1 | 19.0 | 21.0 | 1 | 5 | 54.2 | 27.7 |
| 1.5KE22A | 1.5KE22CA | 18.8 | 20.9 | 23.1 | 1 | 5 | 49.0 | 30.6 |
| 1.5KE24A | 1.5KE24CA | 20.5 | 22.8 | 25.2 | 1 | 5 | 45.2 | 33.2 |
| 1.5KE27A | 1.5KE27CA | 23.1 | 25.7 | 28.4 | 1 | 5 | 40.0 | 37.5 |
| 1.5KE30A | 1.5KE30CA | 25.6 | 28.5 | 31.5 | 1 | 5 | 36.2 | 41.4 |
| 1.5KE33A | 1.5KE33CA | 28.2 | 31.4 | 34.7 | 1 | 5 | 32.8 | 45.7 |
| 1.5KE36A | 1.5KE36CA | 30.8 | 34.2 | 37.8 | 1 | 5 | 30.1 | 49.9 |
| 1.5KE39A | 1.5KE39CA | 33.3 | 37.1 | 41.0 | 1 | 5 | 27.8 | 53.9 |
| 1.5KE43A | 1.5KE43CA | 36.8 | 40.9 | 45.2 | 1 | 5 | 25.3 | 59.3 |
| 1.5KE47A | 1.5KE47CA | 40.2 | 44.7 | 49.4 | 1 | 5 | 23.1 | 64.8 |
| 1.5KE51A | 1.5KE51CA | 43.6 | 48.5 | 53.6 | 1 | 5 | 21.4 | 70.1 |
| 1.5KE56A | 1.5KE56CA | 47.8 | 53.2 | 58.8 | 1 | 5 | 19.5 | 77.0 |
| 1.5KE62A | 1.5KE62CA | 53.0 | 58.9 | 65.1 | 1 | 5 | 17.6 | 85.0 |
| 1.5KE68A | 1.5KE68CA | 58.1 | 64.6 | 71.4 | 1 | 5 | 16.3 | 92.0 |
| 1.5KE75A | 1.5KE75CA | 64.7 | 71.3 | 78.8 | 1 | 5 | 14.6 | 103.0 |
| 1.5KE82A | 1.5KE82CA | 70.1 | 77.9 | 86.1 | 1 | 5 | 13.3 | 113.0 |
| 1.5KE91A | 1.5KE91CA | 77.8 | 86.5 | 95.6 | 1 | 5 | 12.0 | 125.0 |
| 1.5KE100A | 1.5KE100CA | 85.5 | 95.0 | 105.0 | 1 | 5 | 10.9 | 137.0 |
| 1.5KE110A | 1.5KE110CA | 94.0 | 105.0 | 116.1 | 1 | 5 | 9.9 | 152.0 |
| 1.5KE120A | 1.5KE120CA | 102.0 | 114.0 | 126.0 | 1 | 5 | 9.1 | 165.0 |
| 1.5KE130A | 1.5KE130CA | 111.0 | 124.0 | 137.1 | 1 | 5 | 8.4 | 179.0 |
| 1.5KE150A | 1.5KE150CA | 128.0 | 143.0 | 158.1 | 1 | 5 | 7.2 | 207.0 |
| 1.5KE160A | 1.5KE160CA | 136.0 | 152.0 | 168.0 | 1 | 5 | 6.8 | 219.0 |
| 1.5KE170A | 1.5KE170CA | 145.0 | 162.0 | 179.1 | 1 | 5 | 6.4 | 234.0 |
| 1.5KE180A | 1.5KE180CA | 154.0 | 171.0 | 189.0 | 1 | 5 | 6.1 | 246.0 |
| 1.5KE200A | 1.5KE200CA | 171.0 | 190.0 | 210.0 | 1 | 5 | 5.5 | 274.0 |
| 1.5KE220A | 1.5KE220CA | 185.0 | 209.0 | 231.0 | 1 | 5 | 4.6 | 328.0 |
| 1.5KE250A | 1.5KE250CA | 214.0 | 237.0 | 262.0 | 1 | 5 | 4.4 | 344.0 |
| 1.5KE300A | 1.5KE300CA | 256.0 | 285.0 | 315.0 | 1 | 5 | 3.6 | 414.0 |



U.L. RECOGNIZED
FILE# E219635

DO-201

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | I _R (uA) | I _{pp} (A) | V _c (V) |
| 1.5KE350A | 1.5KE350CA | 300.0 | 332.0 | 367.0 | 1 | 5 | 3.1 | 482.0 |
| 1.5KE400A | 1.5KE400CA | 342.0 | 380.0 | 420.0 | 1 | 5 | 2.7 | 548.0 |
| 1.5KE440A | 1.5KE440CA | 376.0 | 418.0 | 462.0 | 1 | 5 | 2.5 | 600.0 |

NOTES:

Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device.

For bidirectional devices having VR of 10 volts and under, the IR limit is doubled .



U.L. RECOGNIZED
FILE# E219635

R-6

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | IR (uA) | Ipp (A) | Vc (V) |
| 3KP5.0 | 3KP5.0C | 5.0 | 6.40 | 7.82 | 10 | 1000 | 312.5 | 9.6 |
| 3KP5.0A | 3KP5.0CA | 5.0 | 6.40 | 7.07 | 10 | 1000 | 326.1 | 9.2 |
| 3KP6.0 | 3KP6.0C | 6.0 | 6.67 | 8.15 | 10 | 1000 | 263.2 | 11.4 |
| 3KP6.0A | 3KP6.0CA | 6.0 | 6.67 | 7.37 | 10 | 1000 | 291.3 | 10.3 |
| 3KP6.5 | 3KP6.5C | 6.5 | 7.22 | 8.82 | 10 | 500 | 243.9 | 12.3 |
| 3KP6.5A | 3KP6.5CA | 6.5 | 7.22 | 7.98 | 10 | 500 | 267.9 | 11.2 |
| 3KP7.0 | 3KP7.0C | 7.0 | 7.78 | 9.51 | 10 | 200 | 225.6 | 13.3 |
| 3KP7.0A | 3KP7.0CA | 7.0 | 7.78 | 8.60 | 10 | 200 | 250.0 | 12.0 |
| 3KP7.5 | 3KP7.5C | 7.5 | 8.33 | 10.18 | 1 | 100 | 209.8 | 14.3 |
| 3KP7.5A | 3KP7.5CA | 7.5 | 8.33 | 9.21 | 1 | 100 | 232.6 | 12.9 |
| 3KP8.0 | 3KP8.0C | 8.0 | 8.89 | 10.86 | 1 | 50 | 200.0 | 15.0 |
| 3KP8.0A | 3KP8.0CA | 8.0 | 8.89 | 9.83 | 1 | 50 | 220.6 | 13.6 |
| 3KP8.5 | 3KP8.5C | 8.5 | 9.44 | 11.54 | 1 | 25 | 188.7 | 15.9 |
| 3KP8.5A | 3KP8.5CA | 8.5 | 9.44 | 10.43 | 1 | 25 | 208.3 | 14.4 |
| 3KP9.0 | 3KP9.0C | 9.0 | 10.00 | 12.22 | 1 | 10 | 177.5 | 16.9 |
| 3KP9.0A | 3KP9.0CA | 9.0 | 10.00 | 11.05 | 1 | 10 | 194.8 | 15.4 |
| 3KP10 | 3KP10C | 10.0 | 11.10 | 13.56 | 1 | 5 | 159.6 | 18.8 |
| 3KP10A | 3KP10CA | 10.0 | 11.10 | 12.27 | 1 | 5 | 176.5 | 17.0 |
| 3KP11 | 3KP11C | 11.0 | 12.2 | 14.9 | 1 | 5 | 149.3 | 20.1 |
| 3KP11A | 3KP11CA | 11.0 | 12.2 | 13.5 | 1 | 5 | 164.8 | 18.2 |
| 3KP12 | 3KP12C | 12.0 | 13.3 | 16.3 | 1 | 5 | 136.4 | 22.0 |
| 3KP12A | 3KP12CA | 12.0 | 13.3 | 14.7 | 1 | 5 | 150.8 | 19.9 |
| 3KP13 | 3KP13C | 13.0 | 14.4 | 17.6 | 1 | 5 | 126.1 | 23.8 |
| 3KP13A | 3KP13CA | 13.0 | 14.4 | 15.9 | 1 | 5 | 139.5 | 21.5 |
| 3KP14 | 3KP14C | 14.0 | 15.6 | 19.1 | 1 | 5 | 116.3 | 25.8 |
| 3KP14A | 3KP14CA | 14.0 | 15.6 | 17.2 | 1 | 5 | 129.3 | 23.2 |
| 3KP15 | 3KP15C | 15.0 | 16.7 | 20.4 | 1 | 5 | 111.5 | 26.9 |
| 3KP15A | 3KP15CA | 15.0 | 16.7 | 18.5 | 1 | 5 | 124.0 | 24.2 |
| 3KP16 | 3KP16C | 16.0 | 17.8 | 21.8 | 1 | 5 | 104.2 | 28.8 |
| 3KP16A | 3KP16CA | 16.0 | 17.8 | 19.7 | 1 | 5 | 115.4 | 26.0 |
| 3KP17 | 3KP17C | 17.0 | 18.9 | 23.1 | 1 | 5 | 98.4 | 30.5 |
| 3KP17A | 3KP17CA | 17.0 | 18.9 | 20.9 | 1 | 5 | 108.7 | 27.6 |
| 3KP18 | 3KP18C | 18.0 | 20.0 | 24.4 | 1 | 5 | 93.2 | 32.2 |
| 3KP18A | 3KP18CA | 18.0 | 20.0 | 22.1 | 1 | 5 | 102.7 | 29.2 |
| 3KP20 | 3KP20C | 20.0 | 22.2 | 27.1 | 1 | 5 | 83.8 | 35.8 |
| 3KP20A | 3KP20CA | 20.0 | 22.2 | 24.5 | 1 | 5 | 92.6 | 32.4 |
| 3KP22 | 3KP22C | 22.0 | 24.4 | 29.8 | 1 | 5 | 76.1 | 39.4 |
| 3KP22A | 3KP22CA | 22.0 | 24.4 | 27.0 | 1 | 5 | 84.5 | 35.5 |
| 3KP24 | 3KP24C | 24.0 | 26.7 | 32.6 | 1 | 5 | 69.8 | 43.0 |
| 3KP24A | 3KP24CA | 24.0 | 26.7 | 29.5 | 1 | 5 | 77.1 | 38.9 |



U.L. RECOGNIZED
FILE# E219635

R-6

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | IR (uA) | Ipp (A) | Vc (V) |
| 3KP26 | 3KP26C | 26.0 | 28.9 | 35.3 | 1 | 5 | 64.4 | 46.6 |
| 3KP26A | 3KP26CA | 26.0 | 28.9 | 31.9 | 1 | 5 | 71.3 | 42.1 |
| 3KP28 | 3KP28C | 28.0 | 31.1 | 38.0 | 1 | 5 | 60.0 | 50.0 |
| 3KP28A | 3KP28CA | 28.0 | 31.1 | 34.4 | 1 | 5 | 66.1 | 45.4 |
| 3KP30 | 3KP30C | 30.0 | 33.3 | 40.7 | 1 | 5 | 56.1 | 53.5 |
| 3KP30A | 3KP30CA | 30.0 | 33.3 | 36.8 | 1 | 5 | 62.0 | 48.4 |
| 3KP33 | 3KP33C | 33.0 | 36.7 | 44.8 | 1 | 5 | 50.8 | 59.0 |
| 3KP33A | 3KP33CA | 33.0 | 36.7 | 40.6 | 1 | 5 | 56.3 | 53.3 |
| 3KP36 | 3KP36C | 36.0 | 40.0 | 48.9 | 1 | 5 | 46.7 | 64.3 |
| 3KP36A | 3KP36CA | 36.0 | 40.0 | 44.2 | 1 | 5 | 51.6 | 58.1 |
| 3KP40 | 3KP40C | 40.0 | 44.4 | 54.3 | 1 | 5 | 42.0 | 71.4 |
| 3KP40A | 3KP40CA | 40.0 | 44.4 | 49.1 | 1 | 5 | 46.5 | 64.5 |
| 3KP43 | 3KP43C | 43.0 | 47.8 | 58.4 | 1 | 5 | 39.1 | 76.7 |
| 3KP43A | 3KP43CA | 43.0 | 47.8 | 52.8 | 1 | 5 | 43.2 | 69.4 |
| 3KP45 | 3KP45C | 45.0 | 50.0 | 61.1 | 1 | 5 | 37.4 | 80.3 |
| 3KP45A | 3KP45CA | 45.0 | 50.0 | 55.3 | 1 | 5 | 41.3 | 72.7 |
| 3KP48 | 3KP48C | 48.0 | 53.3 | 65.1 | 1 | 5 | 35.1 | 85.5 |
| 3KP48A | 3KP48CA | 48.0 | 53.3 | 58.9 | 1 | 5 | 38.8 | 77.4 |
| 3KP51 | 3KP51C | 51.0 | 56.7 | 69.3 | 1 | 5 | 32.9 | 91.1 |
| 3KP51A | 3KP51CA | 51.0 | 56.7 | 62.7 | 1 | 5 | 36.4 | 82.4 |
| 3KP54 | 3KP54C | 54.0 | 60.0 | 73.3 | 1 | 5 | 31.2 | 96.3 |
| 3KP54A | 3KP54CA | 54.0 | 60.0 | 66.3 | 1 | 5 | 34.4 | 87.1 |
| 3KP58 | 3KP58C | 58.0 | 64.4 | 78.7 | 1 | 5 | 29.1 | 103.0 |
| 3KP58A | 3KP58CA | 58.0 | 64.4 | 71.2 | 1 | 5 | 32.1 | 93.6 |
| 3KP60 | 3KP60C | 60.0 | 66.7 | 81.5 | 1 | 5 | 28.0 | 107.0 |
| 3KP60A | 3KP60CA | 60.0 | 66.7 | 73.7 | 1 | 5 | 31.0 | 96.8 |
| 3KP64 | 3KP64C | 64.0 | 71.1 | 86.9 | 1 | 5 | 26.3 | 114.0 |
| 3KP64A | 3KP64CA | 64.0 | 71.1 | 78.6 | 1 | 5 | 29.1 | 103.0 |
| 3KP70 | 3KP70C | 70.0 | 77.8 | 95.1 | 1 | 5 | 24.0 | 125.0 |
| 3KP70A | 3KP70CA | 70.0 | 77.8 | 86.0 | 1 | 5 | 26.5 | 113.0 |
| 3KP75 | 3KP75C | 75.0 | 83.3 | 101.8 | 1 | 5 | 22.4 | 134.0 |
| 3KP75A | 3KP75CA | 75.0 | 83.3 | 92.1 | 1 | 5 | 24.8 | 121.0 |
| 3KP78 | 3KP78C | 78.0 | 86.7 | 105.9 | 1 | 5 | 21.6 | 139.0 |
| 3KP78A | 3KP78CA | 78.0 | 86.7 | 95.8 | 1 | 5 | 23.8 | 126.0 |
| 3KP85 | 3KP85C | 85.0 | 94.4 | 115.4 | 1 | 5 | 19.9 | 151.0 |
| 3KP85A | 3KP85CA | 85.0 | 94.4 | 104.3 | 1 | 5 | 21.9 | 137.0 |
| 3KP90 | 3KP90C | 90.0 | 100.0 | 122.2 | 1 | 5 | 18.8 | 160.0 |
| 3KP90A | 3KP90CA | 90.0 | 100.0 | 110.5 | 1 | 5 | 20.5 | 146.0 |
| 3KP100 | 3KP100C | 100.0 | 111.0 | 135.6 | 1 | 5 | 16.8 | 179.0 |
| 3KP100A | 3KP100CA | 100.0 | 111.0 | 122.7 | 1 | 5 | 18.5 | 162.0 |



R-6



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | IR (uA) | Ipp (A) | Vc (V) |
| 3KP110 | 3KP110C | 110.0 | 122.0 | 149.1 | 1 | 5 | 15.3 | 196.0 |
| 3KP110A | 3KP110CA | 110.0 | 122.0 | 134.8 | 1 | 5 | 16.9 | 177.0 |
| 3KP120 | 3KP120C | 120.0 | 133.0 | 162.5 | 1 | 5 | 14.0 | 214.0 |
| 3KP120A | 3KP120CA | 120.0 | 133.0 | 147.0 | 1 | 5 | 15.5 | 193.0 |
| 3KP130 | 3KP130C | 130.0 | 144.0 | 176.0 | 1 | 5 | 13.0 | 231.0 |
| 3KP130A | 3KP130CA | 130.0 | 144.0 | 159.2 | 1 | 5 | 14.4 | 209.0 |
| 3KP150 | 3KP150C | 150.0 | 167.0 | 204.1 | 1 | 5 | 11.2 | 268.0 |
| 3KP150A | 3KP150CA | 150.0 | 167.0 | 184.6 | 1 | 5 | 12.3 | 243.0 |
| 3KP160 | 3KP160C | 160.0 | 178.0 | 217.5 | 1 | 5 | 10.5 | 287.0 |
| 3KP160A | 3KP160CA | 160.0 | 178.0 | 196.7 | 1 | 5 | 11.6 | 259.0 |
| 3KP170 | 3KP170C | 170.0 | 189.0 | 231.0 | 1 | 5 | 9.9 | 304.0 |
| 3KP170A | 3KP170CA | 170.0 | 189.0 | 208.9 | 1 | 5 | 10.9 | 275.0 |
| 3KP180 | 3KP180C | 180.0 | 198.0 | 242.0 | 1 | 5 | 9.3 | 322.0 |
| 3KP180A | 3KP180CA | 180.0 | 198.0 | 218.8 | 1 | 5 | 10.3 | 292.0 |
| 3KP190 | 3KP190C | 190.0 | 209.0 | 255.4 | 1 | 5 | 8.8 | 340.0 |
| 3KP190A | 3KP190CA | 190.0 | 209.0 | 231.0 | 1 | 5 | 9.7 | 308.0 |
| 3KP200 | 3KP200C | 200.0 | 220.0 | 268.8 | 1 | 5 | 8.4 | 358.0 |
| 3KP200A | 3KP200CA | 200.0 | 220.0 | 243.2 | 1 | 5 | 9.3 | 324.0 |
| 3KP210 | 3KP210C | 210.0 | 231.0 | 282.3 | 1 | 5 | 8.0 | 376.0 |
| 3KP210A | 3KP210CA | 210.0 | 231.0 | 255.3 | 1 | 5 | 8.8 | 340.0 |
| 3KP220 | 3KP220C | 220.0 | 242.0 | 295.7 | 1 | 5 | 7.6 | 394.0 |
| 3KP220A | 3KP220CA | 220.0 | 242.0 | 267.5 | 1 | 5 | 8.4 | 356.0 |

NOTES:

Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device, no suffix denotes 10% tolerance device .

For bidirectional devices having VR of 10 volts and under, the IR limit is doubled .



SMC



U.L. RECOGNIZED

FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | IR (uA) | Ipp (A) | Vc (V) |
| 3.0SMCJ5.0 | 3.0SMCJ5.0C | 5.0 | 6.40 | 7.82 | 10 | 1000 | 312.5 | 9.6 |
| 3.0SMCJ5.0A | 3.0SMCJ5.0CA | 5.0 | 6.40 | 7.07 | 10 | 1000 | 326.1 | 9.2 |
| 3.0SMCJ6.0 | 3.0SMCJ6.0C | 6.0 | 6.67 | 8.15 | 10 | 1000 | 263.2 | 11.4 |
| 3.0SMCJ6.0A | 3.0SMCJ6.0CA | 6.0 | 6.67 | 7.37 | 10 | 1000 | 291.3 | 10.3 |
| 3.0SMCJ6.5 | 3.0SMCJ6.5C | 6.5 | 7.22 | 8.82 | 10 | 500 | 243.9 | 12.3 |
| 3.0SMCJ6.5A | 3.0SMCJ6.5CA | 6.5 | 7.22 | 7.98 | 10 | 500 | 267.9 | 11.2 |
| 3.0SMCJ7.0 | 3.0SMCJ7.0C | 7.0 | 7.78 | 9.51 | 10 | 200 | 225.6 | 13.3 |
| 3.0SMCJ7.0A | 3.0SMCJ7.0CA | 7.0 | 7.78 | 8.60 | 10 | 200 | 250.0 | 12.0 |
| 3.0SMCJ7.5 | 3.0SMCJ7.5C | 7.5 | 8.33 | 10.18 | 1 | 100 | 209.8 | 14.3 |
| 3.0SMCJ7.5A | 3.0SMCJ7.5CA | 7.5 | 8.33 | 9.21 | 1 | 100 | 232.6 | 12.9 |
| 3.0SMCJ8.0 | 3.0SMCJ8.0C | 8.0 | 8.89 | 10.86 | 1 | 50 | 200.0 | 15.0 |
| 3.0SMCJ8.0A | 3.0SMCJ8.0CA | 8.0 | 8.89 | 9.83 | 1 | 50 | 220.6 | 13.6 |
| 3.0SMCJ8.5 | 3.0SMCJ8.5C | 8.5 | 9.44 | 11.54 | 1 | 25 | 188.7 | 15.9 |
| 3.0SMCJ8.5A | 3.0SMCJ8.5CA | 8.5 | 9.44 | 10.43 | 1 | 25 | 208.3 | 14.4 |
| 3.0SMCJ9.0 | 3.0SMCJ9.0C | 9.0 | 10.00 | 12.22 | 1 | 10 | 177.5 | 16.9 |
| 3.0SMCJ9.0A | 3.0SMCJ9.0CA | 9.0 | 10.00 | 11.05 | 1 | 10 | 194.8 | 15.4 |
| 3.0SMCJ10 | 3.0SMCJ10C | 10.0 | 11.10 | 13.56 | 1 | 5 | 159.6 | 18.8 |
| 3.0SMCJ10A | 3.0SMCJ10CA | 10.0 | 11.10 | 12.27 | 1 | 5 | 176.5 | 17.0 |
| 3.0SMCJ11 | 3.0SMCJ11C | 11.0 | 12.2 | 14.9 | 1 | 5 | 149.3 | 20.1 |
| 3.0SMCJ11A | 3.0SMCJ11CA | 11.0 | 12.2 | 13.5 | 1 | 5 | 164.8 | 18.2 |
| 3.0SMCJ12 | 3.0SMCJ12C | 12.0 | 13.3 | 16.3 | 1 | 5 | 136.4 | 22.0 |
| 3.0SMCJ12A | 3.0SMCJ12CA | 12.0 | 13.3 | 14.7 | 1 | 5 | 150.8 | 19.9 |
| 3.0SMCJ13 | 3.0SMCJ13C | 13.0 | 14.4 | 17.6 | 1 | 5 | 126.1 | 23.8 |
| 3.0SMCJ13A | 3.0SMCJ13CA | 13.0 | 14.4 | 15.9 | 1 | 5 | 139.5 | 21.5 |
| 3.0SMCJ14 | 3.0SMCJ14C | 14.0 | 15.6 | 19.1 | 1 | 5 | 116.3 | 25.8 |
| 3.0SMCJ14A | 3.0SMCJ14CA | 14.0 | 15.6 | 17.2 | 1 | 5 | 129.3 | 23.2 |
| 3.0SMCJ15 | 3.0SMCJ15C | 15.0 | 16.7 | 20.4 | 1 | 5 | 111.5 | 26.9 |
| 3.0SMCJ15A | 3.0SMCJ15CA | 15.0 | 16.7 | 18.5 | 1 | 5 | 124.0 | 24.2 |
| 3.0SMCJ16 | 3.0SMCJ16C | 16.0 | 17.8 | 21.8 | 1 | 5 | 104.2 | 28.8 |
| 3.0SMCJ16A | 3.0SMCJ16CA | 16.0 | 17.8 | 19.7 | 1 | 5 | 115.4 | 26.0 |
| 3.0SMCJ17 | 3.0SMCJ17C | 17.0 | 18.9 | 23.1 | 1 | 5 | 98.4 | 30.5 |
| 3.0SMCJ17A | 3.0SMCJ17CA | 17.0 | 18.9 | 20.9 | 1 | 5 | 108.7 | 27.6 |
| 3.0SMCJ18 | 3.0SMCJ18C | 18.0 | 20.0 | 24.4 | 1 | 5 | 93.2 | 32.2 |
| 3.0SMCJ18A | 3.0SMCJ18CA | 18.0 | 20.0 | 22.1 | 1 | 5 | 102.7 | 29.2 |
| 3.0SMCJ20 | 3.0SMCJ20C | 20.0 | 22.2 | 27.1 | 1 | 5 | 83.8 | 35.8 |
| 3.0SMCJ20A | 3.0SMCJ20CA | 20.0 | 22.2 | 24.5 | 1 | 5 | 92.6 | 32.4 |
| 3.0SMCJ22 | 3.0SMCJ22C | 22.0 | 24.4 | 29.8 | 1 | 5 | 76.1 | 39.4 |
| 3.0SMCJ22A | 3.0SMCJ22CA | 22.0 | 24.4 | 27.0 | 1 | 5 | 84.5 | 35.5 |
| 3.0SMCJ24 | 3.0SMCJ24C | 24.0 | 26.7 | 32.6 | 1 | 5 | 69.8 | 43.0 |
| 3.0SMCJ24A | 3.0SMCJ24CA | 24.0 | 26.7 | 29.5 | 1 | 5 | 77.1 | 38.9 |



SMC



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | IR (uA) | Ipp (A) | Vc (V) |
| 3.0SMCJ26 | 3.0SMCJ26C | 26.0 | 28.9 | 35.3 | 1 | 5 | 64.4 | 46.6 |
| 3.0SMCJ26A | 3.0SMCJ26CA | 26.0 | 28.9 | 31.9 | 1 | 5 | 71.3 | 42.1 |
| 3.0SMCJ28 | 3.0SMCJ28C | 28.0 | 31.1 | 38.0 | 1 | 5 | 60.0 | 50.0 |
| 3.0SMCJ28A | 3.0SMCJ28CA | 28.0 | 31.1 | 34.4 | 1 | 5 | 66.1 | 45.4 |
| 3.0SMCJ30 | 3.0SMCJ30C | 30.0 | 33.3 | 40.7 | 1 | 5 | 56.1 | 53.5 |
| 3.0SMCJ30A | 3.0SMCJ30CA | 30.0 | 33.3 | 36.8 | 1 | 5 | 62.0 | 48.4 |
| 3.0SMCJ33 | 3.0SMCJ33C | 33.0 | 36.7 | 44.8 | 1 | 5 | 50.8 | 59.0 |
| 3.0SMCJ33A | 3.0SMCJ33CA | 33.0 | 36.7 | 40.6 | 1 | 5 | 56.3 | 53.3 |
| 3.0SMCJ36 | 3.0SMCJ36C | 36.0 | 40.0 | 48.9 | 1 | 5 | 46.7 | 64.3 |
| 3.0SMCJ36A | 3.0SMCJ36CA | 36.0 | 40.0 | 44.2 | 1 | 5 | 51.6 | 58.1 |
| 3.0SMCJ40 | 3.0SMCJ40C | 40.0 | 44.4 | 54.3 | 1 | 5 | 42.0 | 71.4 |
| 3.0SMCJ40A | 3.0SMCJ40CA | 40.0 | 44.4 | 49.1 | 1 | 5 | 46.5 | 64.5 |
| 3.0SMCJ43 | 3.0SMCJ43C | 43.0 | 47.8 | 58.4 | 1 | 5 | 39.1 | 76.7 |
| 3.0SMCJ43A | 3.0SMCJ43CA | 43.0 | 47.8 | 52.8 | 1 | 5 | 43.2 | 69.4 |
| 3.0SMCJ45 | 3.0SMCJ45C | 45.0 | 50.0 | 61.1 | 1 | 5 | 37.4 | 80.3 |
| 3.0SMCJ45A | 3.0SMCJ45CA | 45.0 | 50.0 | 55.3 | 1 | 5 | 41.3 | 72.7 |
| 3.0SMCJ48 | 3.0SMCJ48C | 48.0 | 53.3 | 65.1 | 1 | 5 | 35.1 | 85.5 |
| 3.0SMCJ48A | 3.0SMCJ48CA | 48.0 | 53.3 | 58.9 | 1 | 5 | 38.8 | 77.4 |
| 3.0SMCJ51 | 3.0SMCJ51C | 51.0 | 56.7 | 69.3 | 1 | 5 | 32.9 | 91.1 |
| 3.0SMCJ51A | 3.0SMCJ51CA | 51.0 | 56.7 | 62.7 | 1 | 5 | 36.4 | 82.4 |
| 3.0SMCJ54 | 3.0SMCJ54C | 54.0 | 60.0 | 73.3 | 1 | 5 | 31.2 | 96.3 |
| 3.0SMCJ54A | 3.0SMCJ54CA | 54.0 | 60.0 | 66.3 | 1 | 5 | 34.4 | 87.1 |
| 3.0SMCJ58 | *3.0SMCJ58C | 58.0 | 64.4 | 78.7 | 1 | 5 | 29.1 | 103.0 |
| 3.0SMCJ58A | *3.0SMCJ58CA | 58.0 | 64.4 | 71.2 | 1 | 5 | 32.1 | 93.6 |
| 3.0SMCJ60 | *3.0SMCJ60C | 60.0 | 66.7 | 81.5 | 1 | 5 | 28.0 | 107.0 |
| 3.0SMCJ60A | *3.0SMCJ60CA | 60.0 | 66.7 | 73.7 | 1 | 5 | 31.0 | 96.8 |
| 3.0SMCJ64 | *3.0SMCJ64C | 64.0 | 71.1 | 86.9 | 1 | 5 | 26.3 | 114.0 |
| 3.0SMCJ64A | *3.0SMCJ64CA | 64.0 | 71.1 | 78.6 | 1 | 5 | 29.1 | 103.0 |
| 3.0SMCJ70 | *3.0SMCJ70C | 70.0 | 77.8 | 95.1 | 1 | 5 | 24.0 | 125.0 |
| 3.0SMCJ70A | *3.0SMCJ70CA | 70.0 | 77.8 | 86.0 | 1 | 5 | 26.5 | 113.0 |
| 3.0SMCJ75 | *3.0SMCJ75C | 75.0 | 83.3 | 101.8 | 1 | 5 | 22.4 | 134.0 |
| 3.0SMCJ75A | *3.0SMCJ75CA | 75.0 | 83.3 | 92.1 | 1 | 5 | 24.8 | 121.0 |
| 3.0SMCJ78 | *3.0SMCJ78C | 78.0 | 86.7 | 105.9 | 1 | 5 | 21.6 | 139.0 |
| 3.0SMCJ78A | *3.0SMCJ78CA | 78.0 | 86.7 | 95.8 | 1 | 5 | 23.8 | 126.0 |
| 3.0SMCJ85 | *3.0SMCJ85C | 85.0 | 94.4 | 115.4 | 1 | 5 | 19.9 | 151.0 |
| 3.0SMCJ85A | *3.0SMCJ85CA | 85.0 | 94.4 | 104.3 | 1 | 5 | 21.9 | 137.0 |
| 3.0SMCJ90 | *3.0SMCJ90C | 90.0 | 100.0 | 122.2 | 1 | 5 | 18.8 | 160.0 |
| 3.0SMCJ90A | *3.0SMCJ90CA | 90.0 | 100.0 | 110.5 | 1 | 5 | 20.5 | 146.0 |
| 3.0SMCJ100 | *3.0SMCJ100C | 100.0 | 111.0 | 135.6 | 1 | 5 | 16.8 | 179.0 |
| 3.0SMCJ100A | *3.0SMCJ100CA | 100.0 | 111.0 | 122.7 | 1 | 5 | 18.5 | 162.0 |



SMC



U.L. RECOGNIZED

FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | IR (uA) | Ipp (A) | Vc (V) |
| 3.0SMCJ110 | *3.0SMCJ110C | 110.0 | 122.0 | 149.1 | 1 | 5 | 15.3 | 196.0 |
| 3.0SMCJ110A | *3.0SMCJ110CA | 110.0 | 122.0 | 134.8 | 1 | 5 | 16.9 | 177.0 |
| 3.0SMCJ120 | *3.0SMCJ120C | 120.0 | 133.0 | 162.5 | 1 | 5 | 14.0 | 214.0 |
| 3.0SMCJ120A | *3.0SMCJ120CA | 120.0 | 133.0 | 147.0 | 1 | 5 | 15.5 | 193.0 |
| 3.0SMCJ130 | *3.0SMCJ130C | 130.0 | 144.0 | 176.0 | 1 | 5 | 13.0 | 231.0 |
| 3.0SMCJ130A | *3.0SMCJ130CA | 130.0 | 144.0 | 159.2 | 1 | 5 | 14.4 | 209.0 |
| 3.0SMCJ150 | N/A | 150.0 | 167.0 | 204.1 | 1 | 5 | 11.2 | 268.0 |
| 3.0SMCJ150A | N/A | 150.0 | 167.0 | 184.6 | 1 | 5 | 12.3 | 243.0 |
| 3.0SMCJ160 | N/A | 160.0 | 178.0 | 217.5 | 1 | 5 | 10.5 | 287.0 |
| 3.0SMCJ160A | N/A | 160.0 | 178.0 | 196.7 | 1 | 5 | 11.6 | 259.0 |
| 3.0SMCJ170 | N/A | 170.0 | 189.0 | 231.0 | 1 | 5 | 9.9 | 304.0 |
| 3.0SMCJ170A | N/A | 170.0 | 189.0 | 208.9 | 1 | 5 | 10.9 | 275.0 |

NOTES:

Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device, no suffix denotes 10% tolerance device .

For bidirectional devices having VR of 10 volts and under, the IR limit is doubled .

Mark " * " denote under development device.



R-6



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | | V _R (V) | Min (V) | Max (V) | I _t (mA) | I _R (uA) | I _{pp} (A) |
| 5KP5.0 | 5KP5.0C | 5.0 | 6.40 | 7.82 | 50 | 5000 | 520.8 | 9.6 |
| 5KP5.0A | 5KP5.0CA | 5.0 | 6.40 | 7.07 | 50 | 5000 | 543.5 | 9.2 |
| 5KP6.0 | 5KP6.0C | 6.0 | 6.67 | 8.15 | 50 | 5000 | 438.6 | 11.4 |
| 5KP6.0A | 5KP6.0CA | 6.0 | 6.67 | 7.37 | 50 | 5000 | 485.4 | 10.3 |
| 5KP6.5 | 5KP6.5C | 6.5 | 7.22 | 8.82 | 50 | 2000 | 406.5 | 12.3 |
| 5KP6.5A | 5KP6.5CA | 6.5 | 7.22 | 7.98 | 50 | 2000 | 446.4 | 11.2 |
| 5KP7.0 | 5KP7.0C | 7.0 | 7.78 | 9.51 | 50 | 1000 | 375.9 | 13.3 |
| 5KP7.0A | 5KP7.0CA | 7.0 | 7.78 | 8.60 | 50 | 1000 | 416.7 | 12.0 |
| 5KP7.5 | 5KP7.5C | 7.5 | 8.33 | 10.18 | 5.0 | 250 | 349.7 | 14.3 |
| 5KP7.5A | 5KP7.5CA | 7.5 | 8.33 | 9.21 | 5.0 | 250 | 387.6 | 12.9 |
| 5KP8.0 | 5KP8.0C | 8.0 | 8.89 | 10.86 | 5.0 | 150 | 333.3 | 15.0 |
| 5KP8.0A | 5KP8.0CA | 8.0 | 8.89 | 9.83 | 5.0 | 150 | 367.6 | 13.6 |
| 5KP8.5 | 5KP8.5C | 8.5 | 9.44 | 11.54 | 5.0 | 50 | 314.5 | 15.9 |
| 5KP8.5A | 5KP8.5CA | 8.5 | 9.44 | 10.43 | 5.0 | 50 | 347.2 | 14.4 |
| 5KP9.0 | 5KP9.0C | 9.0 | 10.00 | 12.22 | 5.0 | 20 | 295.9 | 16.9 |
| 5KP9.0A | 5KP9.0CA | 9.0 | 10.00 | 11.05 | 5.0 | 20 | 324.7 | 15.4 |
| 5KP10 | 5KP10C | 10.0 | 11.10 | 13.56 | 5.0 | 15 | 266.0 | 18.8 |
| 5KP10A | 5KP10CA | 10.0 | 11.10 | 12.27 | 5.0 | 15 | 294.1 | 17.0 |
| 5KP11 | 5KP11C | 11.0 | 12.2 | 14.9 | 5.0 | 10 | 248.8 | 20.1 |
| 5KP11A | 5KP11 CA | 11.0 | 12.2 | 13.5 | 5.0 | 10 | 274.7 | 18.2 |
| 5KP12 | 5KP12C | 12.0 | 13.3 | 16.3 | 5.0 | 10 | 227.3 | 22.0 |
| 5KP12A | 5KP12CA | 12.0 | 13.3 | 14.7 | 5.0 | 10 | 251.3 | 19.9 |
| 5KP13 | 5KP13C | 13.0 | 14.4 | 17.6 | 5.0 | 10 | 210.1 | 23.8 |
| 5KP13A | 5KP13CA | 13.0 | 14.4 | 15.9 | 5.0 | 10 | 232.6 | 21.5 |
| 5KP14 | 5KP14C | 14.0 | 15.6 | 19.1 | 5.0 | 10 | 193.8 | 25.8 |
| 5KP14A | 5KP14CA | 14.0 | 15.6 | 17.2 | 5.0 | 10 | 215.5 | 23.2 |
| 5KP15 | 5KP15C | 15.0 | 16.7 | 20.4 | 5.0 | 10 | 185.9 | 26.9 |
| 5KP15A | 5KP15CA | 15.0 | 16.7 | 18.5 | 5.0 | 10 | 206.6 | 24.2 |
| 5KP16 | 5KP16C | 16.0 | 17.8 | 21.8 | 5.0 | 10 | 173.6 | 28.8 |
| 5KP16A | 5KP16CA | 16.0 | 17.8 | 19.7 | 5.0 | 10 | 192.3 | 26.0 |
| 5KP17 | 5KP17C | 17.0 | 18.9 | 23.1 | 5.0 | 10 | 163.9 | 30.5 |
| 5KP17A | 5KP17CA | 17.0 | 18.9 | 20.9 | 5.0 | 10 | 181.2 | 27.6 |
| 5KP18 | 5KP18C | 18.0 | 20.0 | 24.4 | 5.0 | 10 | 155.3 | 32.2 |
| 5KP18A | 5KP18CA | 18.0 | 20.0 | 22.1 | 5.0 | 10 | 171.2 | 29.2 |
| 5KP20 | 5KP20C | 20.0 | 22.2 | 27.1 | 5.0 | 10 | 139.7 | 35.8 |
| 5KP20A | 5KP20CA | 20.0 | 22.2 | 24.5 | 5.0 | 10 | 154.3 | 32.4 |
| 5KP22 | 5KP22C | 22.0 | 24.4 | 29.8 | 5.0 | 10 | 126.9 | 39.4 |
| 5KP22A | 5KP22CA | 22.0 | 24.4 | 27.0 | 5.0 | 10 | 140.8 | 35.5 |
| 5KP24 | 5KP24C | 24.0 | 26.7 | 32.6 | 5.0 | 10 | 116.3 | 43.0 |
| 5KP24A | 5KP24CA | 24.0 | 26.7 | 29.5 | 5.0 | 10 | 128.5 | 38.9 |



R-6



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | It (mA) | I _R (uA) | I _{pp} (A) | V _c (V) |
| 5KP26 | 5KP26C | 26.0 | 28.9 | 35.3 | 5.0 | 10 | 107.3 | 46.6 |
| 5KP26A | 5KP26CA | 26.0 | 28.9 | 31.9 | 5.0 | 10 | 118.8 | 42.1 |
| 5KP28 | 5KP28C | 28.0 | 31.1 | 38.0 | 5.0 | 10 | 100.0 | 50.0 |
| 5KP28A | 5KP28CA | 28.0 | 31.1 | 34.4 | 5.0 | 10 | 110.1 | 45.4 |
| 5KP30 | 5KP30C | 30.0 | 33.3 | 40.7 | 5.0 | 10 | 93.5 | 53.5 |
| 5KP30A | 5KP30CA | 30.0 | 33.3 | 36.8 | 5.0 | 10 | 103.3 | 48.4 |
| 5KP33 | 5KP33C | 33.0 | 36.7 | 44.8 | 5.0 | 10 | 84.7 | 59.0 |
| 5KP33A | 5KP33CA | 33.0 | 36.7 | 40.6 | 5.0 | 10 | 93.8 | 53.3 |
| 5KP36 | 5KP36C | 36.0 | 40.0 | 48.9 | 5.0 | 10 | 77.8 | 64.3 |
| 5KP36A | 5KP36CA | 36.0 | 40.0 | 44.2 | 5.0 | 10 | 86.1 | 58.1 |
| 5KP40 | 5KP40C | 40.0 | 44.4 | 54.3 | 5.0 | 10 | 70.0 | 71.4 |
| 5KP40A | 5KP40CA | 40.0 | 44.4 | 49.1 | 5.0 | 10 | 77.5 | 64.5 |
| 5KP43 | 5KP43C | 43.0 | 47.8 | 58.4 | 5.0 | 10 | 65.2 | 76.7 |
| 5KP43A | 5KP43CA | 43.0 | 47.8 | 52.8 | 5.0 | 10 | 72.0 | 69.4 |
| 5KP45 | 5KP45C | 45.0 | 50.0 | 61.1 | 5.0 | 10 | 62.3 | 80.3 |
| 5KP45A | 5KP45CA | 45.0 | 50.0 | 55.3 | 5.0 | 10 | 68.8 | 72.7 |
| 5KP48 | 5KP48C | 48.0 | 53.3 | 65.1 | 5.0 | 10 | 58.5 | 85.5 |
| 5KP48A | 5KP48CA | 48.0 | 53.3 | 58.9 | 5.0 | 10 | 64.6 | 77.4 |
| 5KP51 | 5KP51 C | 51.0 | 56.7 | 69.3 | 5.0 | 10 | 54.9 | 91.1 |
| 5KP51A | 5KP51 CA | 51.0 | 56.7 | 62.7 | 5.0 | 10 | 60.7 | 82.4 |
| 5KP54 | 5KP54C | 54.0 | 60.0 | 73.3 | 5.0 | 10 | 51.9 | 96.3 |
| 5KP54A | 5KP54CA | 54.0 | 60.0 | 66.3 | 5.0 | 10 | 57.4 | 87.1 |
| 5KP58 | 5KP58C | 58.0 | 64.4 | 78.7 | 5.0 | 10 | 48.5 | 103.0 |
| 5KP58A | 5KP58CA | 58.0 | 64.4 | 71.2 | 5.0 | 10 | 53.4 | 93.6 |
| 5KP60 | 5KP60C | 60.0 | 66.7 | 81.5 | 5.0 | 10 | 46.7 | 107.0 |
| 5KP60A | 5KP60CA | 60.0 | 66.7 | 73.7 | 5.0 | 10 | 51.7 | 96.8 |
| 5KP64 | 5KP64C | 64.0 | 71.1 | 86.9 | 5.0 | 10 | 43.9 | 114.0 |
| 5KP64A | 5KP64CA | 64.0 | 71.1 | 78.6 | 5.0 | 10 | 48.5 | 103.0 |
| 5KP70 | 5KP70C | 70.0 | 77.8 | 95.1 | 5.0 | 10 | 40.0 | 125.0 |
| 5KP70A | 5KP70CA | 70.0 | 77.8 | 86.0 | 5.0 | 10 | 44.2 | 113.0 |
| 5KP75 | 5KP75C | 75.0 | 83.3 | 101.8 | 5.0 | 10 | 37.3 | 134.0 |
| 5KP75A | 5KP75A | 75.0 | 83.3 | 92.1 | 5.0 | 10 | 41.3 | 121.0 |
| 5KP78 | 5KP78C | 78.0 | 86.7 | 105.9 | 5.0 | 10 | 36.0 | 139.0 |
| 5KP78A | 5KP78CA | 78.0 | 86.7 | 95.8 | 5.0 | 10 | 39.7 | 126.0 |
| 5KP85 | 5KP85C | 85.0 | 94.4 | 115.4 | 5.0 | 10 | 33.1 | 151.0 |
| 5KP85A | 5KP85CA | 85.0 | 94.4 | 104.3 | 5.0 | 10 | 36.5 | 137.0 |
| 5KP90 | 5KP90C | 90.0 | 100.0 | 122.2 | 5.0 | 10 | 31.3 | 160.0 |
| 5KP90A | 5KP90CA | 90.0 | 100.0 | 110.5 | 5.0 | 10 | 34.2 | 146.0 |
| 5KP100 | 5KP100C | 100.0 | 111.0 | 135.6 | 5.0 | 10 | 27.9 | 179.0 |
| 5KP110 | 5KP110C | 110.0 | 122.0 | 149.1 | 5.0 | 10 | 25.5 | 196.0 |



R-6



U.L. RECOGNIZED
FILE# E219635

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | | VR (V) | Min (V) | Max (V) | It (mA) | | |
| 5KP120 | 5KP120C | 120.0 | 133.0 | 162.5 | 5.0 | 10 | 23.4 | 214.0 |
| 5KP150 | 5KP150C | 150.0 | 167.0 | 204.1 | 5.0 | 10 | 18.7 | 268.0 |
| 5KP180 | N/A | 180.0 | 198.0 | 242.0 | 5.0 | 10 | 15.5 | 322.0 |

NOTES:

Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device, no suffix denotes 10% tolerance device .

For bidirectional devices having VR of 10 volts and under, the IR limit is doubled .



U.L. RECOGNIZED
FILE# E219635

R-6

Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------------------|-----------------------------------|----------------------------------|-------------------------------------|
| | | V _R (V) | Min (V) | Max (V) | I _t (mA) | IR (uA) | I _{pp} (A) | V _c (V) |
| 15KP17A | 15KP17CA | 17.0 | 18.9 | 20.9 | 50 | 5000 | 511.9 | 29.3 |
| 15KP18A | 15KP18CA | 18.0 | 20.0 | 22.1 | 50 | 5000 | 485.4 | 30.9 |
| 15KP20A | 15KP20CA | 20.0 | 22.2 | 24.5 | 20 | 1500 | 437.3 | 34.3 |
| 15KP22A | 15KP22CA | 22.0 | 24.4 | 27.0 | 10 | 500 | 404.3 | 37.1 |
| 15KP24A | 15KP24CA | 24.0 | 26.7 | 29.5 | 5 | 150 | 370.4 | 40.5 |
| 15KP26A | 15KP26CA | 26.0 | 28.9 | 31.9 | 5 | 50 | 340.9 | 44.0 |
| 15KP28A | 15KP28CA | 28.0 | 31.1 | 34.4 | 5 | 25 | 315.8 | 47.5 |
| 15KP30 | 15KP30C | 30.0 | 33.3 | 40.7 | 5 | 15 | 280.4 | 53.5 |
| 15KP30A | 15KP30CA | 30.0 | 33.3 | 36.8 | 5 | 15 | 309.9 | 48.4 |
| 15KP33 | 15KP33C | 33.0 | 36.7 | 44.8 | 5 | 10 | 247.5 | 60.6 |
| 15KP33A | 15KP33CA | 33.0 | 36.7 | 40.6 | 5 | 10 | 273.7 | 54.8 |
| 15KP36 | 15KP36C | 36.0 | 40.0 | 48.9 | 5 | 10 | 233.3 | 64.3 |
| 15KP36A | 15KP36CA | 36.0 | 40.0 | 44.2 | 5 | 10 | 258.2 | 58.1 |
| 15KP40 | 15KP40C | 40.0 | 44.4 | 54.3 | 5 | 10 | 210.1 | 71.4 |
| 15KP40A | 15KP40CA | 40.0 | 44.4 | 49.1 | 5 | 10 | 232.6 | 64.5 |
| 15KP43 | 15KP43C | 43.0 | 47.8 | 58.4 | 5 | 10 | 195.6 | 76.7 |
| 15KP43A | 15KP43CA | 43.0 | 47.8 | 52.8 | 5 | 10 | 216.1 | 69.4 |
| 15KP45 | 15KP45C | 45.0 | 50.0 | 61.1 | 5 | 10 | 186.8 | 80.3 |
| 15KP45A | 15KP45CA | 45.0 | 50.0 | 55.3 | 5 | 10 | 206.3 | 72.7 |
| 15KP48 | 15KP48 | 48.0 | 53.3 | 65.1 | 5 | 10 | 175.4 | 85.5 |
| 15KP48A | 15KP48CA | 48.0 | 53.3 | 58.9 | 5 | 10 | 193.8 | 77.4 |
| 15KP51 | 15KP51 | 51.0 | 56.7 | 69.3 | 5 | 10 | 164.7 | 91.1 |
| 15KP51A | 15KP51CA | 51.0 | 56.7 | 62.7 | 5 | 10 | 182.0 | 82.4 |
| 15KP54 | 15KP54C | 54.0 | 60.0 | 73.3 | 5 | 10 | 155.8 | 96.3 |
| 15KP54A | 15KP54CA | 54.0 | 60.0 | 66.3 | 5 | 10 | 172.2 | 87.1 |
| 15KP58 | 15KP58C | 58.0 | 64.4 | 78.7 | 5 | 10 | 145.6 | 103.0 |
| 15KP58A | 15KP58CA | 58.0 | 64.4 | 71.2 | 5 | 10 | 160.3 | 93.6 |
| 15KP60 | 15KP60C | 60.0 | 66.7 | 81.5 | 5 | 10 | 140.2 | 107.0 |
| 15KP60A | 15KP60CA | 60.0 | 66.7 | 73.7 | 5 | 10 | 155.0 | 96.8 |
| 15KP64 | 15KP64C | 64.0 | 71.1 | 86.9 | 5 | 10 | 131.6 | 114.0 |
| 15KP64A | 15KP64CA | 64.0 | 71.1 | 78.6 | 5 | 10 | 145.6 | 103.0 |
| 15KP70 | 15KP70C | 70.0 | 77.8 | 95.1 | 5 | 10 | 120.0 | 125.0 |
| 15KP70A | 15KP70CA | 70.0 | 77.8 | 86.0 | 5 | 10 | 132.7 | 113.0 |
| 15KP75 | 15KP75C | 75.0 | 83.3 | 101.8 | 5 | 10 | 111.9 | 134.0 |
| 15KP75A | 15KP75CA | 75.0 | 83.3 | 92.1 | 5 | 10 | 124.0 | 121.0 |
| 15KP78 | 15KP78C | 78.0 | 86.7 | 105.9 | 5 | 10 | 107.9 | 139.0 |
| 15KP78A | 15KP78CA | 78.0 | 86.7 | 95.8 | 5 | 10 | 119.0 | 126.0 |
| 15KP85 | 15KP85C | 85.0 | 94.4 | 115.4 | 5 | 10 | 99.3 | 151.0 |
| 15KP85A | 15KP85CA | 85.0 | 94.4 | 104.3 | 5 | 10 | 109.5 | 137.0 |
| 15KP90 | 15KP90C | 90.0 | 100.0 | 122.2 | 5 | 10 | 93.8 | 160.0 |
| 15KP90A | 15KP90CA | 90.0 | 100.0 | 110.5 | 5 | 10 | 102.7 | 146.0 |



U.L. RECOGNIZED
FILE# E219635

R-6

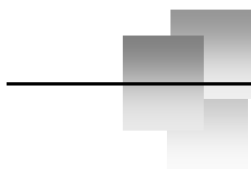
Transient Voltage Suppressor (Continue)

| Device Uni-directional | Device Bi-directional | Reverse Standoff Voltage | Breakdown Voltage BV Volts @It | | | Max. Reverse Leakage @VR | Max. Peak Pulse Current | Max. Clamping Voltage @Ipp |
|---------------------------|--------------------------|--------------------------------|-----------------------------------|---------|---------|-----------------------------------|----------------------------------|-------------------------------------|
| | | | V _R (V) | Min (V) | Max (V) | It (mA) | | |
| 15KP100 | 15KP100C | 100.0 | 111.0 | 135.6 | 5 | 10 | 83.8 | 179.0 |
| 15KP110 | 15KP110C | 110.0 | 122.0 | 149.1 | 5 | 10 | 76.5 | 196.0 |
| 15KP120 | 15KP120C | 120.0 | 133.0 | 162.5 | 5 | 10 | 70.1 | 214.0 |
| 15KP130 | 15KP130C | 130.0 | 144.0 | 176.0 | 5 | 10 | 64.9 | 231.0 |
| 15KP150 | 15KP150C | 150.0 | 167.0 | 204.1 | 5 | 10 | 56.0 | 268.0 |
| 15KP160 | N/A | 160.0 | 178.0 | 217.5 | 5 | 10 | 52.3 | 287.0 |
| 15KP170 | N/A | 170.0 | 189.0 | 231.0 | 5 | 10 | 49.3 | 304.0 |
| 15KP180 | N/A | 180.0 | 200.0 | 242.0 | 5 | 10 | 46.6 | 322.0 |
| 15KP200 | N/A | 200.0 | 222.0 | 268.8 | 5 | 10 | 41.9 | 358.0 |

NOTES:

Suffix 'C' denotes bidirectional device. Suffix 'A' denotes 5% tolerance device, no suffix denotes 10% tolerance device .

ESD PROTECTION DEVICE





SOT-353



SOT-23



SOD-523



SOD-323

Surface Mount ESD Protection Device

| Part Number | Peak Power Dissipation 8x20μs W | Reverse standoff voltage | Max Reverse Leakage @ VR | Max Clamping Voltage @8x20μs | Peak Pulse Current 8x20μs | Off-State Capacitance 1MHz Zero DC Bias | Package |
|----------------|--|--------------------------------|--------------------------------|------------------------------------|---------------------------------|--|---------|
| | | VR | IR | Vc | Ipp | Co | |
| | | V | μA | V | A | pF | |
| L26ESD5V0A2 | 260 | 5 | 1 | 17 | 15 | 140 | SOD-523 |
| L13ESD5V0CB2 | 130 | 5 | 0.1 | 14 | 12 | 45 | SOD-323 |
| L18ESD5V0C3-2 | 180 | 5 | 1 | 15 | 12 | 140 | SOT-23 |
| L02ESD5V0D5-4 | 25 | 5 | 1 @3V | 13 | 2 | 9.5 @ 3V | SOT-353 |
| L30ESD5V0C3-2 | 300 | 5 | 1 | 20 | 15 | 140 | SOT-23 |
| L30ESD5V0AC3-2 | 300 | 5 | 1 | 20 | 15 | 140 | SOT-23 |
| L30ESDL5V0C3-1 | 300 | 5 | 1 | 11 | 5 | 5 | SOT-23 |
| L30ESDL5V0C3-2 | 340 | 5 | 1 | 11 | 5 | 5 | SOT-23 |



ZENER DIODE



SMA

Zener Diode

| Type Number | Marking Code | Zener Voltage Rang | | | Test Current | Maximum Zener Impedance | | | Maximum Reverse Current | | Izm Max (Note 1) |
|-------------|--------------|--------------------|---------|---------|--------------|-------------------------|-----------|----|-------------------------|------|------------------|
| | | Vz @IzT | | | IzT | ZzT @ IzT | Zzk @ Izk | | Ir @VR | | |
| | | Nom (V) | Min (V) | Max (V) | mA | Ω | Ω | mA | μA | V | mA |
| SMAZ5V1 | ZHK | 5.1 | 4.84 | 5.4 | 100 | 5 | 500 | 1 | 2.5 | 1 | 196 |
| SMAZ5V6 | ZHL | 5.6 | 5.32 | 5.88 | 100 | 2 | 250 | 2 | 5 | 2 | 179 |
| SMAZ6V2 | ZHN | 6.2 | 5.89 | 6.51 | 100 | 2 | 200 | 2 | 5 | 3 | 161 |
| SMAZ6V8 | ZHO | 6.8 | 6.46 | 7.14 | 100 | 2 | 200 | 1 | 5 | 4 | 147 |
| SMAZ7V5 | ZHQ | 7.5 | 7.13 | 7.88 | 100 | 2 | 450 | 1 | 5 | 5 | 133 |
| SMAZ8V2 | ZHR | 8.2 | 7.79 | 8.61 | 100 | 2 | 200 | 1 | 5 | 6 | 122 |
| SMAZ9V1 | ZHT | 9.1 | 8.65 | 9.56 | 50 | 4 | 200 | 1 | 5 | 7 | 110 |
| SMAZ10 | ZHU | 10 | 9.5 | 10.5 | 50 | 4 | 200 | 1 | 1 | 7.6 | 100 |
| SMAZ12 | ZHW | 12 | 11.4 | 12.6 | 50 | 7 | 150 | 1 | 1 | 9.1 | 83 |
| SMAZ15 | ZHZ | 15 | 14.25 | 15.75 | 50 | 10 | 150 | 1 | 1 | 11.4 | 67 |
| SMAZ16 | ZJA | 16 | 15.2 | 16.8 | 25 | 15 | 150 | 1 | 0.5 | 12.2 | 63 |
| SMAZ18 | ZJF | 18 | 17.1 | 18.9 | 25 | 15 | 150 | 1 | 0.5 | 13.7 | 56 |
| SMAZ20 | ZJG | 20 | 19 | 21 | 25 | 15 | 180 | 1 | 0.5 | 15.2 | 50 |
| SMAZ22 | ZJK | 22 | 20.9 | 23.1 | 25 | 15 | 180 | 1 | 0.5 | 16.7 | 45 |
| SMAZ24 | ZJL | 24 | 22.8 | 25.2 | 25 | 15 | 180 | 1 | 0.5 | 18.2 | 42 |
| SMAZ27 | ZJN | 27 | 25.65 | 28.35 | 25 | 15 | 200 | 1 | 0.5 | 20.5 | 37 |
| SMAZ30 | ZJQ | 30 | 28.5 | 31.5 | 25 | 15 | 250 | 1 | 0.5 | 22.8 | 33 |
| SMAZ33 | ZJR | 33 | 31.35 | 34.65 | 25 | 15 | 300 | 1 | 0.5 | 25.1 | 30 |
| SMAZ36 | ZJS | 36 | 34.2 | 37.8 | 10 | 40 | 350 | 1 | 0.5 | 27.4 | 28 |
| SMAZ39 | ZJT | 39 | 37.05 | 40.95 | 10 | 40 | 450 | 1 | 0.5 | 29.6 | 26 |

Note:

1) The actual I_{zm} for any device may not exceed the value of 1 watts divided by the actual V_z of the device. T_L=120°C at 1mm maximum from the device body.



0805



1206

Zener Diode

| Type Number | Marking Code | Zener Voltage Rang | | | Test Current | Maximum Zener Impedance | | | Maximum Reverse Current | | Izm Max (Note 1) |
|-------------|--------------|--------------------|---------|---------|--------------|-------------------------|-----------|-----------|-------------------------|------|------------------|
| | | Vz @IzT | | | | IzT | Zzt @ IzT | Zzk @ Izk | Ir @Vr | | |
| | | Nom (V) | Min (V) | Max (V) | mA | Ω | Ω | mA | μA | V | mA |
| LZ52C5V1W | 5V1 | 5.00 | 5.20 | 5 | 1.5 | 500 | 50 | 550 | 0.1 | 1.0 | 1206 |
| LZ52C5V6W | 5V6 | 5.48 | 5.72 | 5 | 1.5 | 500 | 30 | 450 | 0.1 | 1.0 | 1206 |
| LZ52C6V2W | 6V2 | 6.08 | 6.32 | 5 | 1.5 | 500 | 10 | 200 | 0.1 | 2.0 | 1206 |
| LZ52C6V8W | 6V8 | 6.66 | 6.94 | 5 | 1.5 | 500 | 8 | 150 | 0.1 | 3.0 | 1206 |
| LZ52C7V5W | 7V5 | 7.35 | 7.65 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 5.0 | 1206 |
| LZ52C8V2W | 8V2 | 8.04 | 8.36 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 6.2 | 1206 |
| LZ52C9V1W | 9V1 | 8.92 | 9.28 | 5 | 1.5 | 500 | 10 | 50 | 0.1 | 6.8 | 1206 |
| LZ52C10W | 10 | 9.80 | 10.20 | 5 | 1.5 | 500 | 15 | 70 | 0.1 | 7.5 | 1206 |
| LZ52C11W | 11 | 10.78 | 11.22 | 5 | 1.5 | 500 | 20 | 70 | 0.1 | 8.2 | 1206 |
| LZ52C12W | 12 | 11.76 | 12.24 | 5 | 1.5 | 500 | 20 | 90 | 0.1 | 9.1 | 1206 |
| LZ52C13W | 13 | 12.74 | 13.26 | 5 | 1.5 | 500 | 26 | 110 | 0.1 | 10.0 | 1206 |
| LZ52C15W | 15 | 14.70 | 15.30 | 5 | 1.5 | 500 | 30 | 110 | 0.1 | 11.0 | 1206 |
| LZ52C16W | 16 | 15.68 | 16.32 | 5 | 1.5 | 500 | 40 | 170 | 0.1 | 12.0 | 1206 |
| LZ52C18W | 18 | 17.64 | 18.36 | 5 | 1.5 | 500 | 50 | 170 | 0.1 | 13.0 | 1206 |
| LZ52C20W | 20 | 19.60 | 20.40 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 15.0 | 1206 |
| LZ52C22W | 22 | 21.56 | 22.44 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 16.0 | 1206 |
| LZ52C24W | 24 | 23.52 | 24.48 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 18.0 | 1206 |
| LZ52C27W | 27 | 26.46 | 27.54 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 20.0 | 1206 |
| LZ52C30W | 30 | 29.40 | 30.60 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 22.0 | 1206 |
| LZ52C33W | 33 | 32.34 | 33.66 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 24.0 | 1206 |
| LZ52C36W | 36 | 35.28 | 36.72 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 27.0 | 1206 |
| LZ52C5V1WS | 5V1 | 5.00 | 5.20 | 5 | 1.5 | 500 | 50 | 550 | 0.1 | 1.0 | 0805 |
| LZ52C5V6WS | 5V6 | 5.48 | 5.72 | 5 | 1.5 | 500 | 30 | 450 | 0.1 | 1.0 | 0805 |
| LZ52C6V2WS | 6V2 | 6.08 | 6.32 | 5 | 1.5 | 500 | 10 | 200 | 0.1 | 2.0 | 0805 |
| LZ52C6V8WS | 6V8 | 6.66 | 6.94 | 5 | 1.5 | 500 | 8 | 150 | 0.1 | 3.0 | 0805 |
| LZ52C7V5WS | 7V5 | 7.35 | 7.65 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 5.0 | 0805 |
| LZ52C8V2WS | 8V2 | 8.04 | 8.36 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 6.2 | 0805 |
| LZ52C9V1WS | 9V1 | 8.92 | 9.28 | 5 | 1.5 | 500 | 10 | 50 | 0.1 | 6.8 | 0805 |
| LZ52C10WS | 10 | 9.80 | 10.20 | 5 | 1.5 | 500 | 15 | 70 | 0.1 | 7.5 | 0805 |
| LZ52C11WS | 11 | 10.78 | 11.22 | 5 | 1.5 | 500 | 20 | 70 | 0.1 | 8.2 | 0805 |
| LZ52C12WS | 12 | 11.76 | 12.24 | 5 | 1.5 | 500 | 20 | 90 | 0.1 | 9.1 | 0805 |
| LZ52C13WS | 13 | 12.74 | 13.26 | 5 | 1.5 | 500 | 26 | 110 | 0.1 | 10.0 | 0805 |
| LZ52C15WS | 15 | 14.70 | 15.30 | 5 | 1.5 | 500 | 30 | 110 | 0.1 | 11.0 | 0805 |
| LZ52C16WS | 16 | 15.68 | 16.32 | 5 | 1.5 | 500 | 40 | 170 | 0.1 | 12.0 | 0805 |
| LZ52C18WS | 18 | 17.64 | 18.36 | 5 | 1.5 | 500 | 50 | 170 | 0.1 | 13.0 | 0805 |
| LZ52C20WS | 20 | 19.60 | 20.40 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 15.0 | 0805 |
| LZ52C22WS | 22 | 21.56 | 22.44 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 16.0 | 0805 |
| LZ52C24WS | 24 | 23.52 | 24.48 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 18.0 | 0805 |
| LZ52C27WS | 27 | 26.46 | 27.54 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 20.0 | 0805 |
| LZ52C30WS | 30 | 29.40 | 30.60 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 22.0 | 0805 |
| LZ52C33WS | 33 | 32.34 | 33.66 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 24.0 | 0805 |
| LZ52C36WS | 36 | 35.28 | 36.72 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 27.0 | 0805 |

NOTE: 1. Tested with pulses, T_p < 100ms



0805



1206

Zener Diode

| Type Number | Marking Code | Zener Voltage Rang | | | Test Current | Maximum Zener Impedance | | | Maximum Reverse Current | | Izm Max (Note 1) |
|-------------|--------------|--------------------|---------|---------|--------------|-------------------------|-----------|-----|-------------------------|------|------------------|
| | | Vz @IzT | | | IzT | ZzT @ IzT | Zzk @ Izk | | Ir @Vr | | |
| | | Nom (V) | Min (V) | Max (V) | mA | Ω | Ω | mA | μA | V | |
| LZ55C5V1W | 5V1 | 4.85 | 5.36 | 5 | 1.5 | 500 | 50 | 550 | 0.1 | 1.0 | 1206 |
| LZ55C5V6W | 5V6 | 5.32 | 5.88 | 5 | 1.5 | 500 | 30 | 450 | 0.1 | 1.0 | 1206 |
| LZ55C6V2W | 6V2 | 5.89 | 6.51 | 5 | 1.5 | 500 | 10 | 200 | 0.1 | 2.0 | 1206 |
| LZ55C6V8W | 6V8 | 6.46 | 7.14 | 5 | 1.5 | 500 | 8 | 150 | 0.1 | 3.0 | 1206 |
| LZ55C7V5W | 7V5 | 7.13 | 7.88 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 5.0 | 1206 |
| LZ55C8V2W | 8V2 | 7.79 | 8.61 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 6.2 | 1206 |
| LZ55C9V1W | 9V1 | 8.65 | 9.56 | 5 | 1.5 | 500 | 10 | 50 | 0.1 | 6.8 | 1206 |
| LZ55C10W | 10 | 9.50 | 10.50 | 5 | 1.5 | 500 | 15 | 70 | 0.1 | 7.5 | 1206 |
| LZ55C11W | 11 | 10.45 | 11.55 | 5 | 1.5 | 500 | 20 | 70 | 0.1 | 8.2 | 1206 |
| LZ55C12W | 12 | 11.40 | 12.60 | 5 | 1.5 | 500 | 20 | 90 | 0.1 | 9.1 | 1206 |
| LZ55C13W | 13 | 12.35 | 13.65 | 5 | 1.5 | 500 | 26 | 110 | 0.1 | 10.0 | 1206 |
| LZ55C15W | 15 | 14.25 | 15.75 | 5 | 1.5 | 500 | 30 | 110 | 0.1 | 11.0 | 1206 |
| LZ55C16W | 16 | 15.20 | 16.80 | 5 | 1.5 | 500 | 40 | 170 | 0.1 | 12.0 | 1206 |
| LZ55C18W | 18 | 17.10 | 18.90 | 5 | 1.5 | 500 | 50 | 170 | 0.1 | 13.0 | 1206 |
| LZ55C20W | 20 | 19.00 | 21.00 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 15.0 | 1206 |
| LZ55C22W | 22 | 20.90 | 23.10 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 16.0 | 1206 |
| LZ55C24W | 24 | 22.80 | 25.20 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 18.0 | 1206 |
| LZ55C27W | 27 | 25.65 | 28.35 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 20.0 | 1206 |
| LZ55C30W | 30 | 28.50 | 31.50 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 22.0 | 1206 |
| LZ55C33W | 33 | 31.35 | 34.65 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 24.0 | 1206 |
| LZ55C36W | 36 | 34.20 | 37.80 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 27.0 | 1206 |
| LZ55C5V1WS | 5V1 | 4.85 | 5.36 | 5 | 1.5 | 500 | 50 | 550 | 0.1 | 1.0 | 0805 |
| LZ55C5V6WS | 5V6 | 5.32 | 5.88 | 5 | 1.5 | 500 | 30 | 450 | 0.1 | 1.0 | 0805 |
| LZ55C6V2WS | 6V2 | 5.89 | 6.51 | 5 | 1.5 | 500 | 10 | 200 | 0.1 | 2.0 | 0805 |
| LZ55C6V8WS | 6V8 | 6.46 | 7.14 | 5 | 1.5 | 500 | 8 | 150 | 0.1 | 3.0 | 0805 |
| LZ55C7V5WS | 7V5 | 7.13 | 7.88 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 5.0 | 0805 |
| LZ55C8V2WS | 8V2 | 7.79 | 8.61 | 5 | 1.5 | 500 | 7 | 50 | 0.1 | 6.2 | 0805 |
| LZ55C9V1WS | 9V1 | 8.65 | 9.56 | 5 | 1.5 | 500 | 10 | 50 | 0.1 | 6.8 | 0805 |
| LZ55C10WS | 10 | 9.50 | 10.50 | 5 | 1.5 | 500 | 15 | 70 | 0.1 | 7.5 | 0805 |
| LZ55C11WS | 11 | 10.45 | 11.55 | 5 | 1.5 | 500 | 20 | 70 | 0.1 | 8.2 | 0805 |
| LZ55C12WS | 12 | 11.40 | 12.60 | 5 | 1.5 | 500 | 20 | 90 | 0.1 | 9.1 | 0805 |
| LZ55C13WS | 13 | 12.35 | 13.65 | 5 | 1.5 | 500 | 26 | 110 | 0.1 | 10.0 | 0805 |
| LZ55C15WS | 15 | 14.25 | 15.75 | 5 | 1.5 | 500 | 30 | 110 | 0.1 | 11.0 | 0805 |
| LZ55C16WS | 16 | 15.20 | 16.80 | 5 | 1.5 | 500 | 40 | 170 | 0.1 | 12.0 | 0805 |
| LZ55C18WS | 18 | 17.10 | 18.90 | 5 | 1.5 | 500 | 50 | 170 | 0.1 | 13.0 | 0805 |
| LZ55C20WS | 20 | 19.00 | 21.00 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 15.0 | 0805 |
| LZ55C22WS | 22 | 20.90 | 23.10 | 5 | 1.5 | 500 | 55 | 220 | 0.1 | 16.0 | 0805 |
| LZ55C24WS | 24 | 22.80 | 25.20 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 18.0 | 0805 |
| LZ55C27WS | 27 | 25.65 | 28.35 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 20.0 | 0805 |
| LZ55C30WS | 30 | 28.50 | 31.50 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 22.0 | 0805 |
| LZ55C33WS | 33 | 31.35 | 34.65 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 24.0 | 0805 |
| LZ55C36WS | 36 | 34.20 | 37.80 | 5 | 1.5 | 500 | 80 | 220 | 0.1 | 27.0 | 0805 |

NOTE: 1. Tested with pulses, T_p < 100ms



SCHOTTKY RECTIFIERS



DO-216AA

SMA

SMB

SMC

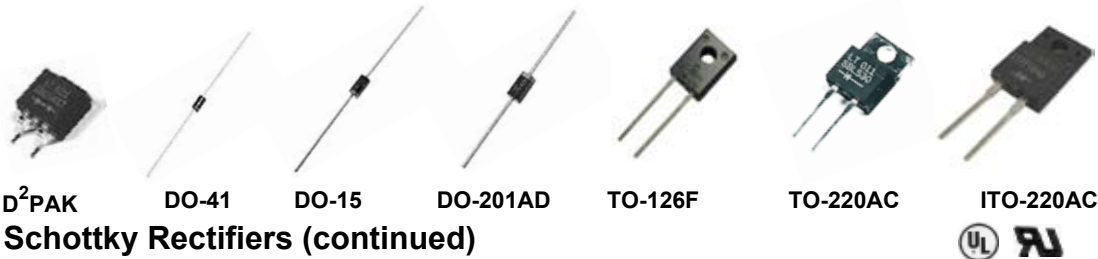
D²PAK

Schottky Rectifiers

| Part Number | Electrical Characteristics | | | | | | | Package |
|---|------------------------------------|------------------|------------------|--|------------|-------------------------|----|----------|
| | VR =V _{R_{RM}} | I _{FAV} | I _{FSM} | IR at VR=V _{R_{RM}} T _J) 25 °C 100 °C | | V _{Fmax} at IF | | |
| | V | A | A | mA | mA | V | A | |
| Surface Mount Rectifiers (Schottky Barrier) | | | | | | | | |
| MB120E | 20 | 1 | 50 | 0.01 | 1.6 | 0.53 | 1 | DO-216AA |
| MB120L | 20 | 1 | 50 | 0.4 | 25 @85°C | 0.45 | 1 | DO-216AA |
| MB130L | 30 | 1 | 50 | 0.41 | 11 @85°C | 0.38 | 1 | DO-216AA |
| MB140 | 40 | 1 | 40 | 0.5 | 25 @85°C | 0.55 | 1 | DO-216AA |
| B5817 | 20 | 1.0 | 25 | 1 | 10 | 0.45 | 1 | SMA |
| B5818 | 30 | 1.0 | 25 | 1 | 10 | 0.55 | 1 | SMA |
| B5819 | 40 | 1.0 | 25 | 1 | 10 | 0.6 | 1 | SMA |
| B140 | 40 | 1.0 | 30 | 0.5 | 10 | 0.5 | 1 | SMA |
| B160 | 60 | 1.0 | 30 | 0.5 | 10 | 0.7 | 1 | SMA |
| B1100 | 100 | 1.0 | 30 | 0.5 | 5 | 0.79 | 1 | SMA |
| B140B | 40 | 1.0 | 30 | 0.5 | 10 | 0.5 | 1 | SMB |
| B160B | 60 | 1.0 | 30 | 0.5 | 10 | 0.7 | 1 | SMB |
| B1100LB | 100 | 1.0 | 50 | 0.5 | 15 | 0.75 | 1 | SMB |
| B230LHA | 30 | 2.0 | 75 | 0.2 | 60 1) | 0.45 | 2 | SMA |
| B240 | 40 | 2.0 | 50 | 0.5 | 20 | 0.5 | 2 | SMB |
| B260 | 60 | 2.0 | 50 | 0.5 | 20 | 0.7 | 2 | SMB |
| B2100 | 100 | 2.0 | 50 | 0.007 | 2 | 0.79 | 2 | SMB |
| B240A | 40 | 2.0 | 50 | 0.5 | 20 | 0.5 | 2 | SMA |
| B260A | 60 | 2.0 | 50 | 0.5 | 20 | 0.7 | 2 | SMA |
| B2100A | 100 | 2.0 | 50 | 0.5 | 15 | 0.79 | 2 | SMA |
| B2150A | 150 | 2.0 | 60 | 0.0015 | 1.5 1) | 0.82 | 2 | SMA |
| B240LA | 40 | 2.0 | 25 | 2 | 60 | 0.43 | 2 | SMA |
| B240L | 40 | 2.0 | 25 | 2 | 60 | 0.43 | 2 | SMB |
| B340 | 40 | 3.0 | 100 | 0.5 | 20 | 0.5 | 3 | SMC |
| B360 | 60 | 3.0 | 100 | 0.5 | 20 | 0.7 | 3 | SMC |
| B3100 | 100 | 3.0 | 100 | 0.5 | 20 | 0.79 | 3 | SMC |
| B340A | 40 | 3.0 | 100 | 0.5 | 20 | 0.5 | 3 | SMA |
| B360A | 60 | 3.0 | 100 | 0.5 | 20 | 0.7 | 3 | SMA |
| B340LA | 40 | 3.0 | 70 | 1 | 15 @20V 1) | 0.45 | 3 | SMA |
| B340B | 40 | 3.0 | 100 | 0.5 | 20 | 0.5 | 3 | SMB |
| B360B | 60 | 3.0 | 100 | 0.5 | 20 | 0.7 | 3 | SMB |
| B340LB | 40 | 3.0 | 70 | 1 | 15 @20V 1) | 0.45 | 3 | SMB |
| B540C | 40 | 5.0 | 175 | 0.5 | 20 | 0.55 | 5 | SMC |
| B560C | 60 | 5.0 | 175 | 0.5 | 20 | 0.7 | 5 | SMC |
| MBRB1530CT | 30 | 15 | 150 | 0.1 | 15 | 0.84 | 15 | D2PAK |
| MBRB1540CT | 40 | 15 | 150 | 0.1 | 15 | 0.84 | 15 | D2PAK |
| MBRB1545CT | 45 | 15 | 150 | 0.1 | 15 | 0.84 | 15 | D2PAK |

1) T_J=125 °C

2) T_J=150 °C



| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------------|----------------------------|------------------|-------------------------|--|-------|-------------------------|-----|-----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | 25 °C | 100 °C | V _{Fmax} at IF | | | | | |
| | V | A | A | mA | mA | V | A | |
| SBG1030L | 30 | 10 | 150 | 5 | 500 | 0.45 | 10 | D2PAK |
| SBG1030 | 30 | 10 | 250 | 1 | 50 | 0.6 | 5 | D2PAK |
| SBG1040 | 40 | 10 | 250 | 1 | 50 | 0.6 | 5 | D2PAK |
| SBG1030CT | 30 | 10 | 125 | 0.5 | 50 | 0.55 | 5 | D2PAK |
| SBG1040CT | 40 | 10 | 125 | 0.5 | 50 | 0.55 | 5 | D2PAK |
| SBG1630CT | 30 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | D2PAK |
| SBG1640CT | 40 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | D2PAK |
| SBG2030CT | 30 | 20 | 225 | 1 | 50 | 0.55 | 10 | D2PAK |
| SBG2040CT | 40 | 20 | 225 | 1 | 50 | 0.55 | 10 | D2PAK |
| SBG3030CT | 30 | 30 | 250 | 1 | 75 | 0.55 | 15 | D2PAK |
| SBG3040CT | 40 | 30 | 250 | 1 | 75 | 0.55 | 15 | D2PAK |
| Leaded Rectifiers | | | | | | | | |
| 1N5819 | 40 | 1.0 | 25 | 1 | 10 | 0.60 | 1 | DO-41 |
| SB140 | 40 | 1.0 | 40 | 0.5 | 10 | 0.50 | 1 | DO-41 |
| SB160 | 60 | 1.0 | 40 | 0.5 | 10 | 0.70 | 1 | DO-41 |
| SB1100 | 100 | 1.0 | 40 | 0.2 | 2 | 0.79 | 1 | DO-41 |
| SB240 | 40 | 2.0 | 60 | 0.5 | 15 | 0.55 | 2 | DO-15 |
| SB260 | 60 | 2.0 | 60 | 0.5 | 15 | 0.70 | 2 | DO-15 |
| SB2100 | 100 | 2.0 | 60 | 0.5 | 10 | 0.79 | 2 | DO-15 |
| 1N5822 | 40 | 3.0 | 80 | 2 | 20 | 0.525 | 3 | DO-201AD |
| SB340 | 40 | 3.0 | 80 | 0.5 | 20 | 0.5 | 3 | DO-201AD |
| SB360 | 60 | 3.0 | 80 | 0.5 | 20 | 0.74 | 3 | DO-201AD |
| SB3100 | 100 | 3.0 | 80 | 0.5 | 20 | 0.79 | 3 | DO-201AD |
| SB540 | 40 | 5.0 | 150 | 0.5 | 50 | 0.55 | 5 | DO-201AD |
| SB560 | 60 | 5.0 | 150 | 0.5 | 50 | 0.67 | 5 | DO-201AD |
| SB5100 | 100 | 5.0 | 125 | 0.5 | 50 | 0.85 | 5 | DO-201AD |
| SB5150 | 150 | 5.0 | 125 | 0.008 | 50 | 0.92 | 5 | DO-201AD |
| SB830 | 30 | 8.0 | 175 | 1 | 50 | 0.55 | 8 | DO-201AD |
| SB840 | 40 | 8.0 | 175 | 1 | 50 | 0.55 | 8 | DO-201AD |
| SBL530 | 30 | 5.0 | 175 | 0.5 | 33 | 0.55 | 5 | TO-220AC |
| SBL540 | 40 | 5.0 | 150 | 0.5 | 50 | 0.55 | 5 | TO-220AC |
| SBL560 | 60 | 5.0 | 175 | 0.5 | 33 | 0.70 | 5 | TO-220AC |
| SBF540 | 40 | 5.0 | 175 | 0.5 | 33 | 0.55 | 5 | ITO-220AC |
| SBC560 | 60 | 5 | 120 | 5 | 20 | 0.76 | 5 | TO-126F |
| MBR730 | 30 | 7.5 | 150 | 0.1 | 15 1) | 0.84 | 15 | TO-220AC |
| MBR745 | 45 | 7.5 | 150 | 0.1 | 15 1) | 0.84 | 15 | TO-220AC |
| MBR760 | 60 | 7.5 | 150 | 0.5 | 50 1) | 0.75 | 7.5 | TO-220AC |
| SBL830 | 30 | 8.0 | 175 | 0.5 | 50 | 0.55 | 8 | TO-220AC |
| SBL840 | 40 | 8.0 | 175 | 0.5 | 50 | 0.55 | 8 | TO-220AC |

1) T_J=125 °C

2) T_J=150 °C



TO-220AC



TO-220AB



ITO-220AC



ITO-220AB

Schottky Rectifiers (continued)



| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------------|-------------------------|----|-----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | V | A | A | 25 °C mA | 100 °C mA | V | A | |
| SBL850 | 50 | 8.0 | 175 | 0.5 | 50 | 0.70 | 8 | TO-220AC |
| SBL860 | 60 | 8.0 | 175 | 0.5 | 50 | 0.70 | 8 | TO-220AC |
| SBF840 | 40 | 8.0 | 175 | 0.5 | 50 | 0.55 | 8 | ITO-220AC |
| MBR830 | 30 | 8.0 | 150 | 0.1 | 15 1) | 0.70 | 8 | TO-220AC |
| MBR845 | 45 | 8.0 | 150 | 0.1 | 15 1) | 0.70 | 8 | TO-220AC |
| MBR860 | 60 | 8.0 | 150 | 0.1 | 15 1) | 0.80 | 8 | TO-220AC |
| MBR8100 | 100 | 8.0 | 125 | 0.1 | 100 1) | 0.85 | 8 | TO-220AC |
| MBRF845 | 45 | 8.0 | 150 | 0.1 | 15 1) | 0.70 | 8 | ITO-220AC |
| MBRF860 | 60 | 8.0 | 150 | 0.1 | 15 1) | 0.80 | 8 | ITO-220AC |
| MBRF8100 | 100 | 8.0 | 125 | 0.1 | 15 1) | 0.85 | 8 | ITO-220AC |
| MBR8100L | 100 | 8.0 | 230 | 0.55 | 7 | 0.72 | 8 | TO-220AC |
| SBL1030L | 30 | 10 | 200 | 0.8 | 260 1) | 0.45 | 10 | TO-220AC |
| SBL1030 | 30 | 10 | 250 | 1 | 50 | 0.60 | 10 | TO-220AC |
| SBL1040 | 40 | 10 | 250 | 1 | 50 | 0.60 | 10 | TO-220AC |
| SBL1060 | 60 | 10 | 250 | 1 | 50 | 0.75 | 10 | TO-220AC |
| SBF1040 | 40 | 10 | 250 | 1 | 50 | 0.60 | 10 | ITO-220AC |
| SBF1060 | 60 | 10 | 250 | 1 | 50 | 0.75 | 10 | ITO-220AC |
| MBR1030 | 30 | 10 | 150 | 0.1 | 15 1) | 0.84 | 20 | TO-220AC |
| MBR1045 | 45 | 10 | 150 | 0.1 | 15 1) | 0.84 | 20 | TO-220AC |
| MBR1060 | 60 | 10 | 150 | 0.1 | 25 1) | 0.95 | 20 | TO-220AC |
| MBR10100 | 100 | 10 | 150 | 0.1 | 100 1) | 0.85 | 10 | TO-220AC |
| MBRF1045 | 45 | 10 | 150 | 0.1 | 15 1) | 0.57 | 10 | ITO-220AC |
| MBRF1060 | 60 | 10 | 150 | 0.1 | 25 1) | 0.65 | 10 | ITO-220AC |
| MBRF10100 | 100 | 10 | 150 | 0.1 | 100 1) | 0.85 | 10 | ITO-220AC |
| SBL1630 | 30 | 16 | 275 | 1 | 50 | 0.57 | 16 | TO-220AC |
| SBL1640 | 40 | 16 | 275 | 1 | 50 | 0.57 | 16 | TO-220AC |
| SBL1660 | 60 | 16 | 275 | 1 | 50 | 0.75 | 16 | TO-220AC |
| MBR1630 | 30 | 16 | 150 | 0.2 | 40 1) | 0.63 | 16 | TO-220AC |
| MBR1640 | 40 | 16 | 150 | 0.2 | 40 1) | 0.63 | 16 | TO-220AC |
| MBR1645 | 45 | 16 | 150 | 0.2 | 40 1) | 0.63 | 16 | TO-220AC |
| MBR1660 | 60 | 16 | 150 | 1.0 | 50 1) | 0.75 | 16 | TO-220AC |
| SBL1030CT | 30 | 10 | 125 | 0.5 | 50 | 0.55 | 5 | TO-220AB |
| SBL1040CT | 40 | 10 | 125 | 0.5 | 50 | 0.55 | 5 | TO-220AB |
| SBL1060CT | 60 | 10 | 125 | 0.5 | 50 | 0.7 | 5 | TO-220AB |
| SBF1030CT | 30 | 10 | 150 | 0.5 | 50 | 0.55 | 5 | ITO-220AB |
| SBF1040CT | 40 | 10 | 150 | 0.5 | 50 | 0.55 | 5 | ITO-220AB |
| SBF1060CT | 60 | 10 | 150 | 0.5 | 50 | 0.7 | 5 | ITO-220AB |

1) T_J=125 °C

2) T_J=150°C



TO-220AB



ITO-220AB



U.L. RECOGNIZED
FILE# E95060

Schottky Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------|-------------------------|----|-----------|
| | VR | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | =V _{RRM} | | | 25 °C | 100 °C | | | |
| | V | A | A | mA | mA | V | A | |
| MBR1030CT | 30 | 10 | 125 | 0.1 | 15 1) | 0.7 | 5 | TO-220AB |
| MBR1045CT | 45 | 10 | 125 | 0.1 | 15 1) | 0.7 | 5 | TO-220AB |
| MBR1060CT | 60 | 10 | 125 | 0.1 | 15 1) | 0.8 | 5 | TO-220AB |
| MBR10100CT | 100 | 10 | 120 | 0.1 | 15 1) | 0.85 | 5 | TO-220AB |
| MBR10125CT | 125 | 10 | 120 | 0.008 | 2 1) | 0.92 | 5 | TO-220AB |
| MBR10150CT | 150 | 10 | 120 | 0.008 | 2 1) | 0.92 | 5 | TO-220AB |
| MBR10200CT | 200 | 10 | 120 | 0.008 | 2 1) | 0.92 | 5 | TO-220AB |
| MBRF1045CT | 45 | 10 | 125 | 0.1 | 15 1) | 0.7 | 5 | ITO-220AB |
| MBRF1060CT | 60 | 10 | 125 | 0.1 | 15 1) | 0.8 | 5 | ITO-220AB |
| MBRF10100CT | 100 | 10 | 120 | 0.1 | 15 1) | 0.85 | 5 | ITO-220AB |
| MBRF10150CT | 150 | 10 | 120 | 0.008 | 2 1) | 0.92 | 5 | ITO-220AB |
| MBRF10200CT | 200 | 10 | 120 | 0.008 | 2 1) | 0.92 | 5 | ITO-220AB |
| MBR1530CT | 30 | 15 | 150 | 0.1 | 15 1) | 0.84 | 15 | TO-220AB |
| MBR1545CT | 45 | 15 | 150 | 0.1 | 15 1) | 0.84 | 15 | TO-220AB |
| MBR1560CT | 60 | 15 | 150 | 1.0 | 50 1) | 0.9 | 15 | TO-220AB |
| SBL1630CT | 30 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | TO-220AB |
| SBL1640CT | 40 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | TO-220AB |
| SBL1660CT | 60 | 16 | 175 | 0.5 | 50 | 0.70 | 8 | TO-220AB |
| SBF1630CT | 30 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | ITO-220AB |
| SBF1640CT | 40 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | ITO-220AB |
| SBF1660CT | 60 | 16 | 175 | 0.5 | 50 | 0.70 | 8 | ITO-220AB |
| MBR16100CT | 100 | 16 | 125 | 0.1 | 100 1) | 0.85 | 8 | TO-220AB |
| MBRF16100CT | 100 | 16 | 125 | 0.1 | 100 1) | 0.85 | 8 | ITO-220AB |
| SBL2030CT | 30 | 20 | 225 | 1 | 50 | 0.55 | 10 | TO-220AB |
| SBL2040CT | 40 | 20 | 225 | 1 | 50 | 0.55 | 10 | TO-220AB |
| SBL2060CT | 60 | 20 | 225 | 1 | 50 | 0.7 | 10 | TO-220AB |
| SBL20V60CT | 60 | 20 | 200 | 0.1 | 20 | 0.6 | 10 | TO-220AB |
| SBF2030CT | 30 | 20 | 225 | 1 | 50 | 0.55 | 10 | ITO-220AB |
| SBF2040CT | 40 | 20 | 225 | 1 | 50 | 0.55 | 10 | ITO-220AB |
| SBF2060CT | 60 | 20 | 225 | 1 | 50 | 0.75 | 10 | ITO-220AB |
| MBR2030CT | 30 | 20 | 150 | 0.1 | 15 | 0.84 | 20 | TO-220AB |
| MBR2045CT | 45 | 20 | 150 | 0.1 | 15 | 0.84 | 20 | TO-220AB |
| MBR2060CT | 60 | 20 | 150 | 0.1 | 15 | 0.95 | 20 | TO-220AB |
| MBR20100CT | 100 | 20 | 150 | 0.1 | 100 1) | 0.85 | 10 | TO-220AB |
| MBR20100CTL | 100 | 20 | 150 | 0.1 | 100 | 0.95 | 20 | TO-220AB |
| MBR20H100CT | 100 | 20 | 250 | 0.005 | 5 1) | 0.77 | 10 | TO-220AB |
| MBR20150CT | 150 | 20 | 180 | 0.008 | 5 1) | 0.92 | 10 | TO-220AB |
| MBR20200CT | 200 | 20 | 180 | 0.008 | 5 1) | 0.92 | 10 | TO-220AB |

1) T_J=125 °C 2) T_J=150 °C



TO-220AB



TO-3P



ITO-220AB



U.L. RECOGNIZED
FILE# E95060

Schottky Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|---|--------|-------------------------|----|-----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) 25 °C 100 °C | | V _{Fmax} at IF | | |
| | V | A | A | mA | mA | V | A | |
| MBRF2045CT | 45 | 20 | 150 | 0.1 | 15 | 0.84 | 20 | ITO-220AB |
| MBRF2060CT | 60 | 20 | 150 | 0.1 | 25 1) | 0.95 | 20 | ITO-220AB |
| MBRF20100CT | 100 | 20 | 150 | 0.1 | 100 1) | 0.85 | 10 | ITO-220AB |
| MBRF20150CT | 150 | 20 | 180 | 0.008 | 5 1) | 0.92 | 10 | ITO-220AB |
| MBRF20200CT | 200 | 20 | 180 | 0.008 | 5 1) | 0.92 | 10 | ITO-220AB |
| MBR2530CT | 30 | 30 | 150 | 0.2 | 40 1) | 0.82 | 30 | TO-220AB |
| MBR2545CT | 45 | 30 | 150 | 1.0 | 50 1) | 0.75 | 15 | TO-220AB |
| MBR2560CT | 60 | 30 | 150 | 1.0 | 50 1) | 0.75 | 15 | TO-220AB |
| SBL3030CT | 30 | 30 | 250 | 1 | 75 | 0.55 | 15 | TO-220AB |
| SBL3040CT | 40 | 30 | 250 | 1 | 75 | 0.55 | 15 | TO-220AB |
| SBL3060CT | 60 | 30 | 250 | 1 | 75 | 0.70 | 15 | TO-220AB |
| SBL30L30CT | 32 | 30 | 220 | 1.5 | 350 1) | 0.46 | 15 | TO-220AB |
| SBL30L60CT | 60 | 30 | 250 | 0.5 | 75 | 0.60 | 15 | TO-220AB |
| MBR3030CT | 30 | 30 | 200 | 0.2 | 40 1) | 0.70 | 15 | TO-220AB |
| MBR3045CT | 45 | 30 | 200 | 0.2 | 40 1) | 0.70 | 15 | TO-220AB |
| MBR3060CT | 60 | 30 | 200 | 0.2 | 40 1) | 0.80 | 15 | TO-220AB |
| MBR30100CT | 100 | 30 | 250 | 0.1 | 5 1) | 0.80 | 15 | TO-220AB |
| MBR30H100CT | 100 | 30 | 250 | 0.005 | 5 1) | 0.80 | 15 | TO-220AB |
| MBR3045CTL | 45 | 30 | 200 | 0.1 | 40 1) | 0.70 | 15 | TO-220AB |
| SBL1630PT | 30 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | TO-3P |
| SBL1640PT | 40 | 16 | 175 | 0.5 | 50 | 0.55 | 8 | TO-3P |
| SBL1660PT | 60 | 16 | 175 | 0.5 | 50 | 0.70 | 8 | TO-3P |
| SBL2030PT | 30 | 20 | 250 | 1 | 50 | 0.55 | 10 | TO-3P |
| SBL2040PT | 40 | 20 | 250 | 1 | 50 | 0.55 | 10 | TO-3P |
| SBL2060PT | 60 | 20 | 250 | 1 | 50 | 0.75 | 10 | TO-3P |
| SBL3030PT | 30 | 30 | 275 | 1 | 75 | 0.55 | 15 | TO-3P |
| SBL3040PT | 40 | 30 | 275 | 1 | 75 | 0.55 | 15 | TO-3P |
| SBL3060PT | 60 | 30 | 275 | 1 | 75 | 0.70 | 15 | TO-3P |
| MBR3030PT | 30 | 30 | 200 | 1 | 60 1) | 0.76 | 30 | TO-3P |
| MBR3045PT | 45 | 30 | 200 | 1 | 60 1) | 0.76 | 30 | TO-3P |
| MBR3060PT | 60 | 30 | 200 | 5 | 100 1) | 0.80 | 30 | TO-3P |
| MBR30100PT | 100 | 30 | 250 | 0.1 | 5 1) | 0.80 | 15 | TO-3P |
| SBL4030PT | 30 | 40 | 375 | 10 | 100 | 0.58 | 20 | TO-3P |
| SBL4040PT | 40 | 40 | 375 | 10 | 100 | 0.58 | 20 | TO-3P |
| SBL4060PT | 60 | 40 | 375 | 10 | 100 | 0.70 | 20 | TO-3P |

1) T_J=125 °C

2) T_J=150°C



TO-3P

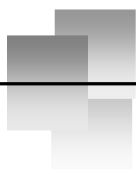
Schottky Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------|-------------------------|----|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | 25 °C | 100 °C | | | | | | |
| V | A | A | mA | mA | V | A | | |
| MBR4030PT | 30 | 40 | 400 | 1 | 100 1) | 0.70 | 20 | TO-3P |
| MBR4045PT | 45 | 40 | 400 | 1 | 100 1) | 0.70 | 20 | TO-3P |
| MBR4060PT | 60 | 40 | 400 | 1 | 100 1) | 0.80 | 20 | TO-3P |
| SBL6030PT | 30 | 60 | 450 | 10 | 200 | 0.55 | 30 | TO-3P |
| SBL6040PT | 40 | 60 | 450 | 10 | 200 | 0.55 | 30 | TO-3P |
| SBL6060PT | 60 | 60 | 450 | 10 | 200 | 0.70 | 30 | TO-3P |
| MBR6030PT | 30 | 60 | 450 | 1 | 50 | 0.62 | 30 | TO-3P |
| MBR6045PT | 45 | 60 | 450 | 1 | 50 | 0.62 | 30 | TO-3P |
| MBR6060PT | 60 | 60 | 450 | 1 | 50 | 0.72 | 30 | TO-3P |

1) T_J=125 °C

2) T_J=150°C

SUPER FAST & ULTRA FAST RECTIFIERS





SMA

SMB

SMC

D2PAK

Super-Fast & Ultra-Fast Recovery Rectifiers

| Part Number | Electrical Characteristics | | | | | | | | Package |
|---|----------------------------|------------------|------------------|--|--------|-------------------------|---|-----------------------------------|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | 25 °C | 100 °C | V | A | nS | |
| Surface Mount Rectifiers (Glass Passivated) | | | | | | | | | |
| US1D | 200 | 1.0 | 30 | 5 | 100 | 1.0 | 1 | 50 | SMA |
| US1G | 400 | 1.0 | 30 | 5 | 100 | 1.3 | 1 | 50 | SMA |
| US1J | 600 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | SMA |
| US1K | 800 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | SMA |
| US1M | 1000 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | SMA |
| ES1D | 200 | 1.0 | 30 | 5 | 200 1) | 0.92 | 1 | 25 | SMA |
| ES1G | 400 | 1.0 | 30 | 5 | 200 1) | 1.25 | 1 | 25 | SMA |
| ES1J | 600 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 35 | SMA |
| ES1DB | 200 | 1.0 | 30 | 5 | 200 1) | 0.92 | 1 | 25 | SMB |
| ES1GB | 400 | 1.0 | 30 | 5 | 200 1) | 1.25 | 1 | 25 | SMB |
| ES1JB | 600 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 35 | SMB |
| FS1D | 200 | 1.0 | 30 | 5 | 200 1) | 0.92 | 1 | 35 | SMA |
| FS1G | 400 | 1.0 | 30 | 5 | 200 1) | 1.25 | 1 | 35 | SMA |
| FS1J | 600 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 50 | SMA |
| ES2D | 200 | 2.0 | 50 | 5 | 350 1) | 0.92 | 2 | 25 | SMB |
| ES2G | 400 | 2.0 | 50 | 5 | 350 1) | 1.25 | 2 | 25 | SMB |
| ES2J | 600 | 2.0 | 50 | 5 | 350 1) | 1.3 | 2 | 35 | SMB |
| ES2DA | 200 | 2.0 | 50 | 5 | 350 1) | 0.92 | 2 | 25 | SMA |
| ES2GA | 400 | 2.0 | 50 | 5 | 350 1) | 1.25 | 2 | 25 | SMA |
| ES2JA | 600 | 2.0 | 50 | 5 | 351 1) | 1.3 | 2 | 35 | SMA |
| FS2D | 200 | 2.0 | 50 | 5 | 350 1) | 0.92 | 2 | 35 | SMB |
| FS2G | 400 | 2.0 | 50 | 5 | 350 1) | 1.25 | 2 | 35 | SMB |
| FS2J | 600 | 2.0 | 50 | 5 | 350 1) | 1.3 | 2 | 50 | SMB |
| ES3D | 200 | 3.0 | 100 | 10 | 500 1) | 0.92 | 3 | 25 | SMC |
| ES3G | 400 | 3.0 | 100 | 10 | 500 1) | 1.25 | 3 | 25 | SMC |
| ES3J | 600 | 3.0 | 100 | 10 | 500 1) | 1.3 | 3 | 35 | SMC |
| ES3DB | 200 | 3.0 | 100 | 10 | 500 1) | 0.92 | 3 | 25 | SMB |
| ES3GB | 400 | 3.0 | 100 | 10 | 500 1) | 1.25 | 3 | 25 | SMB |
| ES3JB | 600 | 3.0 | 100 | 10 | 500 1) | 1.3 | 3 | 35 | SMB |
| FS3D | 200 | 3.0 | 100 | 10 | 500 1) | 0.92 | 3 | 35 | SMC |
| FS3G | 400 | 3.0 | 100 | 10 | 500 1) | 1.25 | 3 | 35 | SMC |
| FS3J | 600 | 3.0 | 100 | 10 | 500 1) | 1.3 | 3 | 50 | SMC |
| MURS120 | 200 | 1.0 | 40 | 2 | 50 2) | 0.875 | 1 | 25 | SMB |
| MURS140 | 400 | 1.0 | 35 | 5 | 150 2) | 1.25 | 1 | 50 | SMB |
| MURS160 | 600 | 1.0 | 35 | 5 | 150 2) | 1.25 | 1 | 50 | SMB |
| MURS320 | 200 | 3.0 | 75 | 5 | 100 2) | 0.875 | 3 | 25 | SMC |
| MURB1620CT | 200 | 16 | 100 | 5 | 250 2) | 0.975 | 8 | 25 | D2PAK |

1) T_J=125 °C

2) T_J=150 °C



T-1



DO-41



DO-15

Super-Fast & Ultra-Fast Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | | Package |
|--------------------------------------|----------------------------|------------------|------------------|---|-----|-------------------------|-----|-----------------------------------|----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) 25 °C 100 °C | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | uA | uA | V | A | nS | |
| Leaded Rectifiers - Open Junction | | | | | | | | | |
| UF1003 | 200 | 1.0 | 30 | 5 | 100 | 1 | 1 | 50 | DO-41 |
| UF1004 | 400 | 1.0 | 30 | 5 | 100 | 1.3 | 1 | 50 | DO-41 |
| UF1005 | 600 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | DO-41 |
| UF1006 | 800 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | DO-41 |
| UF1007 | 1000 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | DO-41 |
| UF1503 | 200 | 1.5 | 50 | 5 | 100 | 1 | 1.5 | 50 | DO-15 |
| UF1504 | 400 | 1.5 | 50 | 5 | 100 | 1.3 | 1.5 | 50 | DO-15 |
| UF1505 | 600 | 1.5 | 50 | 5 | 100 | 1.7 | 1.5 | 75 | DO-15 |
| UF1506 | 800 | 1.5 | 50 | 5 | 100 | 1.7 | 1.5 | 75 | DO-15 |
| UF1507 | 1000 | 1.5 | 50 | 5 | 100 | 1.7 | 1.5 | 75 | DO-15 |
| UF1503S | 200 | 1.5 | 50 | 5 | 100 | 1 | 1.5 | 50 | DO-41 |
| UF1504S | 400 | 1.5 | 50 | 5 | 100 | 1.3 | 1.5 | 50 | DO-41 |
| UF1505S | 600 | 1.5 | 50 | 5 | 100 | 1.7 | 1.5 | 75 | DO-41 |
| UF1506S | 800 | 1.5 | 50 | 5 | 100 | 1.7 | 1.5 | 75 | DO-41 |
| UF1507S | 1000 | 1.5 | 50 | 5 | 100 | 1.7 | 1.5 | 75 | DO-41 |
| UF2003 | 200 | 2.0 | 60 | 5 | 100 | 1 | 2 | 50 | DO-15 |
| UF2004 | 400 | 2.0 | 60 | 5 | 100 | 1.3 | 2 | 50 | DO-15 |
| UF2005 | 600 | 2.0 | 60 | 5 | 100 | 1.7 | 2 | 75 | DO-15 |
| UF2006 | 800 | 2.0 | 60 | 5 | 100 | 1.7 | 2 | 75 | DO-15 |
| UF2007 | 1000 | 2.0 | 60 | 5 | 100 | 1.7 | 2 | 75 | DO-15 |
| UF3003 | 200 | 3.0 | 150 | 5 | 100 | 1 | 3 | 50 | DO-201AD |
| UF3004 | 400 | 3.0 | 150 | 5 | 100 | 1.3 | 3 | 50 | DO-201AD |
| UF3005 | 600 | 3.0 | 150 | 5 | 100 | 1.7 | 3 | 75 | DO-201AD |
| UF3006 | 800 | 3.0 | 150 | 5 | 100 | 1.7 | 3 | 75 | DO-201AD |
| UF3007 | 1000 | 3.0 | 150 | 5 | 100 | 1.7 | 3 | 75 | DO-201AD |
| Leaded Rectifiers - Glass Passivated | | | | | | | | | |
| SD3G | 200 | 1.0 | 30 | 5 | 100 | 0.95 | 1.0 | 35 | T-1 |
| SD4G | 400 | 1.0 | 30 | 5 | 100 | 1.25 | 1.0 | 40 | T-1 |
| UD3G | 200 | 1.0 | 30 | 5 | 100 | 1.0 | 1.0 | 50 | T-1 |
| UD4G | 400 | 1.0 | 30 | 5 | 100 | 1.3 | 1.0 | 50 | T-1 |
| UD5G | 600 | 1.0 | 30 | 5 | 100 | 1.7 | 1.0 | 75 | T-1 |
| UD6G | 800 | 1.0 | 30 | 5 | 100 | 1.7 | 1.0 | 75 | T-1 |
| UD7G | 1000 | 1.0 | 30 | 5 | 100 | 1.7 | 1.0 | 75 | T-1 |

1) T_J=125 °C 2) T_J=150°C



DO-41



DO-15



DO-201

Super-Fast & Ultra-Fast Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------------|-------------------------|-----|-----------------------------------|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | nS | |
| UG1003 | 200 | 1.0 | 30 | 5 | 100 | 1 | 1 | 50 | DO-41 |
| UG1004 | 400 | 1.0 | 30 | 5 | 100 | 1.3 | 1 | 50 | DO-41 |
| UG1005 | 600 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | DO-41 |
| UG1006 | 800 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | DO-41 |
| UG1007 | 1000 | 1.0 | 30 | 5 | 100 | 1.7 | 1 | 75 | DO-41 |
| SF10DG | 200 | 1.0 | 30 | 5 | 100 | 0.95 | 1 | 35 | DO-41 |
| SF10GG | 400 | 1.0 | 30 | 5 | 100 | 1.25 | 1 | 40 | DO-41 |
| SF10JG | 600 | 1.0 | 30 | 5 | 100 | 1.3 | 1 | 50 | DO-41 |
| MUR120 | 200 | 1.0 | 35 | 2 | 50 2) | 0.875 | 1 | 25 | DO-41 |
| MUR140 | 400 | 1.0 | 35 | 5 | 150 2) | 1.25 | 1 | 50 | DO-41 |
| MUR160 | 600 | 1.0 | 35 | 5 | 150 2) | 1.25 | 1 | 50 | DO-41 |
| UG2003 | 200 | 2.0 | 60 | 5 | 100 | 1 | 2 | 50 | DO-15 |
| UG2004 | 400 | 2.0 | 60 | 5 | 100 | 1.3 | 2 | 50 | DO-15 |
| UG2005 | 600 | 2.0 | 60 | 5 | 100 | 1.7 | 2 | 75 | DO-15 |
| UG2006 | 800 | 2.0 | 60 | 5 | 100 | 1.7 | 2 | 75 | DO-15 |
| UG2007 | 1000 | 2.0 | 60 | 5 | 100 | 1.7 | 2 | 75 | DO-15 |
| SF20DG | 200 | 2.0 | 60 | 5 | 100 | 0.95 | 2 | 35 | DO-15 |
| SF20GG | 400 | 2.0 | 60 | 5 | 100 | 1.25 | 2 | 40 | DO-15 |
| SF20JG | 600 | 2.0 | 60 | 5 | 100 | 1.3 | 2 | 50 | DO-15 |
| UG5402 | 200 | 3.0 | 125 | 5 | 100 | 1.0 | 3.0 | 50 | DO-201 |

1) T_J=125 °C

2) T_J=150 °C



DO-201AD



TO-220AC



ITO-220AC

Super-Fast & Ultra-Fast Recovery Rectifiers (continued)



| Part Number | Electrical Characteristics | | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|---|--------------------|-------------------------|---|-----------------------------------|-----------|
| | VR =V _{R RM} | I _{FAV} | I _{FSM} | IR at VR=V _{R RM} T _j) | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | nS | |
| UG3003 | 200 | 3.0 | 125 | 5 | 100 | 1.0 | 3 | 50 | DO-201AD |
| UG3004 | 400 | 3.0 | 125 | 5 | 100 | 1.3 | 3 | 50 | DO-201AD |
| UG3005 | 600 | 3.0 | 125 | 5 | 100 | 1.7 | 3 | 75 | DO-201AD |
| UG3006 | 800 | 3.0 | 125 | 5 | 100 | 1.7 | 3 | 75 | DO-201AD |
| UG3007 | 1000 | 3.0 | 125 | 5 | 100 | 1.7 | 3 | 75 | DO-201AD |
| SF30DG | 200 | 3.0 | 125 | 5 | 100 | 0.95 | 3 | 35 | DO-201AD |
| SF30GG | 400 | 3.0 | 125 | 5 | 100 | 1.25 | 3 | 40 | DO-201AD |
| SF30JG | 600 | 3.0 | 125 | 5 | 100 | 1.3 | 3 | 50 | DO-201AD |
| SF31DG | 200 | 3.0 | 80 | 5 | 100 | 0.95 | 3 | 23 | DO-201AD |
| SF31GG | 400 | 3.0 | 80 | 5 | 100 | 1.25 | 3 | 23 | DO-201AD |
| SF31JG | 600 | 3.0 | 80 | 5 | 100 | 1.7 | 3 | 25 | DO-201AD |
| SF40DG | 200 | 4.0 | 150 | 5 | 100 | 0.95 | 4 | 35 | DO-201AD |
| SF40GG | 400 | 4.0 | 150 | 5 | 100 | 1.25 | 4 | 40 | DO-201AD |
| SF40JG | 600 | 4.0 | 150 | 5 | 100 | 1.3 | 4 | 50 | DO-201AD |
| SF50DG | 200 | 5.0 | 150 | 5 | 300 | 0.95 | 5 | 35 | DO-201AD |
| SF50GG | 400 | 5.0 | 150 | 5 | 300 | 1.25 | 5 | 40 | DO-201AD |
| SF50JG | 600 | 5.0 | 150 | 5 | 300 | 1.3 | 5 | 50 | DO-201AD |
| STPR506D | 600 | 5.0 | 60 | 50 | 2000 ¹⁾ | 1.75 | 5 | 25 | TO-220AC |
| STPR520D | 200 | 5.0 | 55 | 10 | 500 ¹⁾ | 1.1 | 5 | 30 | TO-220AC |
| STPR540D | 400 | 5.0 | 55 | 10 | 500 ¹⁾ | 1.3 | 5 | 35 | TO-220AC |
| STPR560D | 600 | 5.0 | 55 | 10 | 500 ¹⁾ | 1.5 | 5 | 50 | TO-220AC |
| STPRA520D | 200 | 5.0 | 55 | 50 | 3000 ¹⁾ | 1.1 | 5 | 30 | TO-220AC |
| STPRA560D | 600 | 5.0 | 55 | 50 | 3000 ¹⁾ | 1.5 | 5 | 50 | TO-220AC |
| STPF520D | 200 | 5.0 | 55 | 10 | 500 ¹⁾ | 1.1 | 5 | 30 | ITO-220AC |

1) T_j=125 °C

2) T_j=150°C



TO-220AC



TO-220AB



ITO-220AC



ITO-220AB

Super-Fast & Ultra-Fast Recovery Rectifiers (continued)



| Part Number | Electrical Characteristics | | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------------------|-------------------------|----|-----------------------------------|-----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | nS | |
| STPR620D | 200 | 6.0 | 60 | 10 | 500 ¹⁾ | 1.1 | 6 | 30 | TO-220AC |
| STPR640D | 400 | 6.0 | 60 | 10 | 500 ¹⁾ | 1.3 | 6 | 35 | TO-220AC |
| STPR660D | 600 | 6.0 | 60 | 10 | 500 ¹⁾ | 1.5 | 6 | 50 | TO-220AC |
| STPRA620D | 200 | 6.0 | 60 | 50 | 3000 ¹⁾ | 1.1 | 6 | 30 | TO-220AC |
| STPRA660D | 600 | 6.0 | 60 | 50 | 3000 ¹⁾ | 1.5 | 6 | 50 | TO-220AC |
| LTTH806D | 600 | 8.0 | 100 | 30 | 400 ¹⁾ | 2.90 | 8 | 25 | TO-220AC |
| LTTH806DF | 600 | 8.0 | 100 | 30 | 400 ¹⁾ | 2.90 | 8 | 25 | ITO-220AC |
| LTTH806L | 600 | 8.0 | 120 | 8 | 200 ²⁾ | 1.30 | 8 | 70 | TO-220AC |
| LTTH806LF | 600 | 8.0 | 120 | 8 | 200 ²⁾ | 1.30 | 8 | 70 | ITO-220AC |
| STPR806D | 600 | 8.0 | 90 | 50 | 4000 ¹⁾ | 1.75 | 8 | 25 | TO-220AC |
| STPR820D | 200 | 8.0 | 90 | 10 | 1000 ¹⁾ | 1.1 | 8 | 30 | TO-220AC |
| STPR840D | 400 | 8.0 | 90 | 10 | 1000 ¹⁾ | 1.3 | 8 | 35 | TO-220AC |
| STPR860D | 600 | 8.0 | 90 | 10 | 1000 ¹⁾ | 1.5 | 8 | 50 | TO-220AC |
| STPRA820D | 200 | 8.0 | 90 | 50 | 3000 ¹⁾ | 1.1 | 8 | 30 | TO-220AC |
| STPF820D | 200 | 8.0 | 90 | 10 | 500 | 1.1 | 8 | 30 | ITO-220AC |
| STPR1020D | 200 | 10.0 | 125 | 10 | 1000 ¹⁾ | 1.1 | 10 | 30 | TO-220AC |
| STPR1040D | 400 | 10.0 | 125 | 10 | 1000 ¹⁾ | 1.3 | 10 | 35 | TO-220AC |
| STPR1060D | 600 | 10.0 | 125 | 10 | 1000 ¹⁾ | 1.5 | 10 | 50 | TO-220AC |
| STPRA1020D | 200 | 10.0 | 125 | 50 | 3500 ¹⁾ | 1.1 | 10 | 30 | TO-220AC |
| STPRA1060D | 600 | 10.0 | 125 | 50 | 3500 ¹⁾ | 1.5 | 10 | 50 | TO-220AC |
| STPF1020D | 200 | 10.0 | 125 | 10 | 500 | 1.1 | 10 | 30 | ITO-220AC |
| STPR1020CT | 200 | 10.0 | 55 | 10 | 250 | 1.25 | 10 | 30 | TO-220AB |
| STPR1040CT | 400 | 10.0 | 55 | 10 | 250 | 1.50 | 10 | 35 | TO-220AB |
| STPR1060CT | 600 | 10.0 | 55 | 10 | 250 | 1.70 | 10 | 50 | TO-220AB |
| STPRA1020CT | 200 | 10.0 | 55 | 50 | 600 | 1.25 | 10 | 30 | TO-220AB |
| STPRA1060CT | 600 | 10.0 | 55 | 50 | 600 ¹⁾ | 1.70 | 10 | 50 | TO-220AB |
| STPF1020CT | 200 | 10.0 | 55 | 10 | 250 | 1.25 | 10 | 30 | ITO-220AB |
| STPR1220CT | 200 | 12.0 | 60 | 10 | 250 | 1.25 | 12 | 30 | TO-220AB |
| STPR1240CT | 400 | 12.0 | 60 | 10 | 250 | 1.50 | 12 | 35 | TO-220AB |
| STPR1260CT | 600 | 12.0 | 60 | 10 | 250 | 1.70 | 12 | 50 | TO-220AB |
| STPRA1220CT | 200 | 12.0 | 60 | 50 | 600 ¹⁾ | 1.25 | 12 | 30 | TO-220AB |
| STPRA1260CT | 600 | 12.0 | 60 | 50 | 600 ¹⁾ | 1.70 | 12 | 50 | TO-220AB |
| LTTH1206D | 600 | 12.0 | 120 | 45 | 600 ¹⁾ | 2.90 | 12 | 25 | TO-220AC |
| LTTH1206DF | 600 | 12.0 | 120 | 45 | 600 ¹⁾ | 2.90 | 12 | 25 | ITO-220AC |
| LTTH1506D | 600 | 15.0 | 120 | 60 | 800 ¹⁾ | 2.90 | 15 | 30 | TO-220AC |
| LTTH1506DF | 600 | 15.0 | 120 | 60 | 800 ¹⁾ | 2.90 | 15 | 30 | ITO-220AC |
| STPR1620CT | 200 | 16.0 | 90 | 10 | 500 | 1.25 | 16 | 30 | TO-220AB |
| STPR1640CT | 400 | 16.0 | 90 | 10 | 500 | 1.50 | 16 | 35 | TO-220AB |
| STPR1660CT | 600 | 16.0 | 90 | 10 | 500 | 1.70 | 16 | 50 | TO-220AB |

1) T_J=125 °C

2) T_J=150 °C



TO-220AB



ITO-220AB



U.L. RECOGNIZED
FILE# E95060

Super-Fast & Ultra-Fast Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------|--------------------------|----|-----------------------------------|-----------|
| | VR =V _R RM | I _{FAV} | I _{FSM} | IR at VR=V _R RM T _J) 25 °C 100 °C | | V _F max at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | uA | uA | V | A | nS | |
| STPRA1620CT | 200 | 16.0 | 90 | 50 | 600 | 1.25 | 16 | 30 | TO-220AB |
| STPF1620CT | 200 | 16.0 | 90 | 10 | 500 | 1.25 | 16 | 30 | ITO-220AB |
| STPR2020CT | 200 | 20.0 | 125 | 10 | 500 | 1.25 | 20 | 30 | TO-220AB |
| STPR2040CT | 400 | 20.0 | 125 | 10 | 500 | 1.50 | 20 | 35 | TO-220AB |
| STPR2060CT | 600 | 20.0 | 125 | 10 | 500 | 1.70 | 20 | 50 | TO-220AB |
| STPRA2020CT | 200 | 20.0 | 125 | 50 | 800 | 1.25 | 20 | 30 | TO-220AB |
| STPRA2060CT | 600 | 20.0 | 125 | 50 | 800 1) | 1.70 | 20 | 50 | TO-220AB |
| STPF2020CT | 200 | 20.0 | 125 | 10 | 500 1) | 1.25 | 20 | 30 | ITO-220AB |

1) T_J=125 °C 2) T_J=150°C



BRIDGE RECTIFIERS



U.L. RECOGNIZED
FILE# E95060

Bridge Rectifiers

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|----|-------------------------|---|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | 25 °C | 100 °C | | | | | | |
| | V | A | A | uA | uA | V | A | |

Surface Mount Rectifiers (Glass Passivated)

| | | | | | | | | |
|---------|------|-----|----|----|--------|------|-----|------|
| RH04 | 400 | 0.8 | 30 | 5 | 100 1) | 1.15 | 0.4 | HDDF |
| RH06 | 600 | 0.8 | 30 | 5 | 100 1) | 1.15 | 0.4 | HDDF |
| RH08 | 800 | 0.8 | 30 | 5 | 100 1) | 1.15 | 0.4 | HDDF |
| HD04 | 400 | 0.8 | 30 | 5 | 500 1) | 1.0 | 0.4 | HDDF |
| HD06 | 600 | 0.8 | 30 | 5 | 500 1) | 1.0 | 0.4 | HDDF |
| HD08 | 800 | 0.8 | 30 | 5 | 500 1) | 1.0 | 0.4 | HDDF |
| HD10 | 1000 | 0.8 | 30 | 5 | 500 1) | 1.0 | 0.4 | HDDF |
| DF04S | 400 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF06S | 600 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF08S | 800 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF10S | 1000 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF04SH | 400 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF06SH | 600 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF08SH | 800 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF10SH | 1000 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DF-S |
| DF1504S | 400 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DF-S |
| DF1506S | 600 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DF-S |
| DF1508S | 800 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DF-S |
| DF1510S | 1000 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DF-S |

Leaded Rectifiers - Glass Passivated

| | | | | | | | | |
|---------|------|-----|----|----|--------|-----|-----|-----|
| DF04M | 400 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF06M | 600 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF08M | 800 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF10M | 1000 | 1.0 | 50 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF04MH | 400 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF06MH | 600 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF08MH | 800 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF10MH | 1000 | 1.0 | 60 | 10 | 500 1) | 1.1 | 1 | DFM |
| DF1504M | 400 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DFM |
| DF1506M | 600 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DFM |
| DF1508M | 800 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DFM |
| DF1510M | 1000 | 1.5 | 50 | 10 | 500 1) | 1.1 | 1.5 | DFM |
| W04G | 400 | 1.5 | 50 | 5 | 500 1) | 1.0 | 1 | WOG |
| W06G | 600 | 1.5 | 50 | 5 | 500 1) | 1.0 | 1 | WOG |
| W08G | 800 | 1.5 | 50 | 5 | 500 1) | 1.0 | 1 | WOG |
| W10G | 1000 | 1.5 | 50 | 5 | 500 1) | 1.0 | 1 | WOG |
| 2W04G | 400 | 2.0 | 60 | 5 | 500 1) | 1.1 | 2 | WOG |
| 2W06G | 600 | 2.0 | 60 | 5 | 500 1) | 1.1 | 2 | WOG |
| 2W08G | 800 | 2.0 | 60 | 5 | 500 1) | 1.1 | 2 | WOG |
| 2W10G | 1000 | 2.0 | 60 | 5 | 500 1) | 1.1 | 2 | WOG |

1) T_J=125 °C



KBP



GBL



KBJ



GBU



U.L. RECOGNIZED
FILE# E95060

Bridge Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------------|-------------------------|-----|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | |
| KBP04G | 400 | 1.5 | 40 | 5 | 500 1) | 1.1 | 1.5 | KBP |
| KBP06G | 600 | 1.5 | 40 | 5 | 500 1) | 1.1 | 1.5 | KBP |
| KBP08G | 800 | 1.5 | 40 | 5 | 500 1) | 1.1 | 1.5 | KBP |
| KBP10G | 1000 | 1.5 | 40 | 5 | 500 1) | 1.1 | 1.5 | KBP |
| KBP204G | 400 | 2.0 | 65 | 5 | 500 1) | 1.1 | 2 | KBP |
| KBP206G | 600 | 2.0 | 65 | 5 | 500 1) | 1.1 | 2 | KBP |
| KBP208G | 800 | 2.0 | 65 | 5 | 500 1) | 1.1 | 2 | KBP |
| KBP210G | 1000 | 2.0 | 65 | 5 | 500 1) | 1.1 | 2 | KBP |
| GBL204 | 400 | 2.0 | 120 | 5 | 500 1) | 0.95 | 1 | GBL |
| GBL206 | 600 | 2.0 | 120 | 5 | 500 1) | 0.95 | 1 | GBL |
| GBL208 | 800 | 2.0 | 120 | 5 | 500 1) | 0.95 | 1 | GBL |
| GBL210 | 1000 | 2.0 | 120 | 5 | 500 1) | 0.95 | 1 | GBL |
| GBL204L | 400 | 2.0 | 60 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL206L | 600 | 2.0 | 60 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL208L | 800 | 2.0 | 60 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL210L | 1000 | 2.0 | 60 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL204M | 400 | 2.0 | 80 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL206M | 600 | 2.0 | 80 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL208M | 800 | 2.0 | 80 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL210M | 1000 | 2.0 | 80 | 10 | 500 1) | 1.05 | 1 | GBL |
| GBL404 | 400 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBL |
| GBL406 | 600 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBL |
| GBL408 | 800 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBL |
| GBL410 | 1000 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBL |
| KBJ404G | 400 | 4.0 | 120 | 5 | 500 1) | 1.0 | 2 | KBJ |
| KBJ406G | 600 | 4.0 | 120 | 5 | 500 1) | 1.0 | 2 | KBJ |
| KBJ408G | 800 | 4.0 | 120 | 5 | 500 1) | 1.0 | 2 | KBJ |
| KBJ410G | 1000 | 4.0 | 120 | 5 | 500 1) | 1.0 | 2 | KBJ |
| KBJ404L | 400 | 4.0 | 80 | 5 | 500 1) | 1.05 | 2 | KBJ |
| KBJ406L | 600 | 4.0 | 80 | 5 | 500 1) | 1.05 | 2 | KBJ |
| KBJ408L | 800 | 4.0 | 80 | 5 | 500 1) | 1.05 | 2 | KBJ |
| KBJ410L | 1000 | 4.0 | 80 | 5 | 500 1) | 1.05 | 2 | KBJ |
| KBP204GL | 400 | 4.0 | 110 | 5 | 500 1) | 1.1 | 4 | KBP |
| KBP206GL | 600 | 4.0 | 110 | 5 | 500 1) | 1.1 | 4 | KBP |
| KBP208GL | 800 | 4.0 | 110 | 5 | 500 1) | 1.1 | 4 | KBP |
| KBP210GL | 1000 | 4.0 | 110 | 5 | 500 1) | 1.1 | 4 | KBP |
| GBU404 | 400 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBU |
| GBU406 | 600 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBU |
| GBU408 | 800 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBU |
| GBU410 | 1000 | 4.0 | 150 | 5 | 500 1) | 1.0 | 2 | GBU |

1) T_J=125 °C



GBU



KBJ



GBJ



GBPC/W



U.L. RECOGNIZED
FILE# E95060

Bridge Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|-------------------|-------------------------|-----|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | |
| GBU604 | 400 | 6.0 | 175 | 5 | 500 ₁₎ | 1.0 | 3 | GBU |
| GBU606 | 600 | 6.0 | 175 | 5 | 500 ₁₎ | 1.0 | 3 | GBU |
| GBU608 | 800 | 6.0 | 175 | 5 | 500 ₁₎ | 1.0 | 3 | GBU |
| GBU610 | 1000 | 6.0 | 175 | 5 | 500 ₁₎ | 1.0 | 3 | GBU |
| KBJ604G | 400 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | KBJ |
| KBJ606G | 600 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | KBJ |
| KBJ608G | 800 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | KBJ |
| KBJ610G | 1000 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | KBJ |
| GBJ604 | 400 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | GBJ |
| GBJ606 | 600 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | GBJ |
| GBJ608 | 800 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | GBJ |
| GBJ610 | 1000 | 6.0 | 170 | 5 | 500 ₁₎ | 1.0 | 3 | GBJ |
| GBJ604L | 400 | 6.0 | 110 | 5 | 500 ₁₎ | 1.05 | 3 | GBJ |
| GBJ606L | 600 | 6.0 | 110 | 5 | 500 ₁₎ | 1.05 | 3 | GBJ |
| GBJ608L | 800 | 6.0 | 110 | 5 | 500 ₁₎ | 1.05 | 3 | GBJ |
| GBJ610L | 1000 | 6.0 | 110 | 5 | 500 ₁₎ | 1.05 | 3 | GBJ |
| GBJ804 | 400 | 8.0 | 170 | 5 | 500 ₁₎ | 1.0 | 4 | GBJ |
| GBJ806 | 600 | 8.0 | 170 | 5 | 500 ₁₎ | 1.0 | 4 | GBJ |
| GBJ808 | 800 | 8.0 | 170 | 5 | 500 ₁₎ | 1.0 | 4 | GBJ |
| GBJ810 | 1000 | 8.0 | 170 | 5 | 500 ₁₎ | 1.0 | 4 | GBJ |
| GBU804 | 400 | 8.0 | 200 | 5 | 500 ₁₎ | 1.0 | 4 | GBU |
| GBU806 | 600 | 8.0 | 200 | 5 | 500 ₁₎ | 1.0 | 4 | GBU |
| GBU808 | 800 | 8.0 | 200 | 5 | 500 ₁₎ | 1.0 | 4 | GBU |
| GBU810 | 1000 | 8.0 | 200 | 5 | 500 ₁₎ | 1.0 | 4 | GBU |
| GBU1004 | 400 | 10 | 220 | 5 | 500 ₁₎ | 1.0 | 5 | GBU |
| GBU1006 | 600 | 10 | 220 | 5 | 500 ₁₎ | 1.0 | 5 | GBU |
| GBU1008 | 800 | 10 | 220 | 5 | 500 ₁₎ | 1.0 | 5 | GBU |
| GBU1010 | 1000 | 10 | 220 | 5 | 500 ₁₎ | 1.0 | 5 | GBU |
| KBJ1004G | 400 | 10 | 170 | 5 | 500 ₁₎ | 1.1 | 5 | KBJ |
| KBJ1006G | 600 | 10 | 170 | 5 | 500 ₁₎ | 1.1 | 5 | KBJ |
| KBJ1008G | 800 | 10 | 170 | 5 | 500 ₁₎ | 1.1 | 5 | KBJ |
| KBJ1010G | 1000 | 10 | 170 | 5 | 500 ₁₎ | 1.1 | 5 | KBJ |
| GBJ1004 | 400 | 10 | 170 | 10 | 500 ₁₎ | 1.05 | 5 | GBJ |
| GBJ1006 | 600 | 10 | 170 | 10 | 500 ₁₎ | 1.05 | 5 | GBJ |
| GBJ1008 | 800 | 10 | 170 | 10 | 500 ₁₎ | 1.05 | 5 | GBJ |
| GBJ1010 | 1000 | 10 | 170 | 10 | 500 ₁₎ | 1.05 | 5 | GBJ |
| GBJ1504 | 400 | 15 | 240 | 10 | 500 ₁₎ | 1.05 | 7.5 | GBJ |
| GBJ1506 | 600 | 15 | 240 | 10 | 500 ₁₎ | 1.05 | 7.5 | GBJ |
| GBJ1508 | 800 | 15 | 240 | 10 | 500 ₁₎ | 1.05 | 7.5 | GBJ |
| GBJ1510 | 1000 | 15 | 240 | 10 | 500 ₁₎ | 1.05 | 7.5 | GBJ |

1) T_J=125 °C



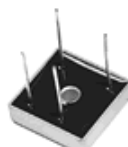
GBU



GBJ



GBPC/W



KBPCG/W



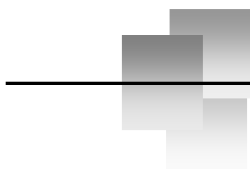
U.L. RECOGNIZED
FILE# E95060

Bridge Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------------|-------------------------|------|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | |
| GBU1504 | 400 | 15 | 220 | 5 | 500 1) | 1.1 | 7.5 | GBU |
| GBU1506 | 600 | 15 | 220 | 5 | 500 1) | 1.1 | 7.5 | GBU |
| GBU1508 | 800 | 15 | 220 | 5 | 500 1) | 1.1 | 7.5 | GBU |
| GBU1510 | 1000 | 15 | 220 | 5 | 500 1) | 1.1 | 7.5 | GBU |
| GBPC1504/W | 400 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | GBPC/W |
| GBPC1506/W | 600 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | GBPC/W |
| GBPC1508/W | 800 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | GBPC/W |
| GBPC1510/W | 1000 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | GBPC/W |
| KBPC1504G/W | 400 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | KBPCG/W |
| KBPC1506G/W | 600 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | KBPCG/W |
| KBPC1508G/W | 800 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | KBPCG/W |
| KBPC1510G/W | 1000 | 15 | 300 | 5 | 500 1) | 1.1 | 7.5 | KBPCG/W |
| GBJ2004 | 400 | 20 | 240 | 10 | 500 1) | 1.05 | 10 | GBJ |
| GBJ2006 | 600 | 20 | 240 | 10 | 500 1) | 1.05 | 10 | GBJ |
| GBJ2008 | 800 | 20 | 240 | 10 | 500 1) | 1.05 | 10 | GBJ |
| GBJ2010 | 1000 | 20 | 240 | 10 | 500 1) | 1.05 | 10 | GBJ |
| GBJ2504 | 400 | 25 | 350 | 10 | 500 1) | 1.05 | 12.5 | GBJ |
| GBJ2506 | 600 | 25 | 350 | 10 | 500 1) | 1.05 | 12.5 | GBJ |
| GBJ2508 | 800 | 25 | 350 | 10 | 500 1) | 1.05 | 12.5 | GBJ |
| GBJ2510 | 1000 | 25 | 350 | 10 | 500 1) | 1.05 | 12.5 | GBJ |
| GBPC2504/W | 400 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | GBPC/W |
| GBPC2506/W | 600 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | GBPC/W |
| GBPC2508/W | 800 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | GBPC/W |
| GBPC2510/W | 1000 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | GBPC/W |
| KBPC2504G/W | 400 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | KBPCG/W |
| KBPC2506G/W | 600 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | KBPCG/W |
| KBPC2508G/W | 800 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | KBPCG/W |
| KBPC2510G/W | 1000 | 25 | 350 | 5 | 500 1) | 1.1 | 12.5 | KBPCG/W |
| KBPC3504G/W | 400 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | KBPCG/W |
| KBPC3506G/W | 600 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | KBPCG/W |
| KBPC3508G/W | 800 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | KBPCG/W |
| KBPC3510G/W | 1000 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | KBPCG/W |
| GBPC3504/W | 400 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | GBPC/W |
| GBPC3506/W | 600 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | GBPC/W |
| GBPC3508/W | 800 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | GBPC/W |
| GBPC3510/W | 1000 | 35 | 400 | 5 | 500 1) | 1.1 | 17.5 | GBPC/W |

1) T_J=125 °C

FAST RECOVERY RECTIFIERS





SMA



SMB



SMC



DO-41



A-405

Fast Recovery Rectifiers

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------------|-------------------------|---|-----------------------------------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | nS |

Surface Mount Rectifiers (Glass Passivated)

| | | | | | | | | | |
|-------|------|-----|-----|---|--------|-----|-----|-----|-----|
| RS1G | 400 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 150 | SMA |
| RS1J | 600 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 250 | SMA |
| RS1K | 800 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 500 | SMA |
| RS1M | 1000 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 500 | SMA |
| RS1GB | 400 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 150 | SMB |
| RS1JB | 600 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 250 | SMB |
| RS1KB | 800 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 500 | SMB |
| RS1MB | 1000 | 1.0 | 30 | 5 | 200 1) | 1.3 | 1 | 500 | SMB |
| RS2G | 400 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 150 | SMB |
| RS2J | 600 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 250 | SMB |
| RS2K | 800 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 500 | SMB |
| RS2M | 1000 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 500 | SMB |
| RS2GA | 400 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 150 | SMA |
| RS2JA | 600 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 250 | SMA |
| RS2KA | 800 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 500 | SMA |
| RS2MA | 1000 | 1.5 | 50 | 5 | 200 1) | 1.3 | 1.5 | 500 | SMA |
| RS3G | 400 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 150 | SMC |
| RS3J | 600 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 250 | SMC |
| RS3K | 800 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 500 | SMC |
| RS3M | 1000 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 500 | SMC |
| RS3GB | 400 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 150 | SMB |
| RS3JB | 600 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 250 | SMB |
| RS3KB | 800 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 500 | SMB |
| RS3MB | 1000 | 3.0 | 100 | 5 | 250 1) | 1.3 | 3 | 500 | SMB |

Leaded Rectifiers - Open Junction

| | | | | | | | | | |
|---------|------|-----|----|---|-----|-----|---|-----|-------|
| 1N4936 | 400 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 130 | DO-41 |
| 1N4937 | 600 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 130 | DO-41 |
| 1N4936L | 400 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 130 | A-405 |
| 1N4937L | 600 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 130 | A-405 |
| PR1004 | 400 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 150 | DO-41 |
| PR1005 | 600 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 250 | DO-41 |
| PR1006 | 800 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 500 | DO-41 |
| PR1007 | 1000 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 500 | DO-41 |
| PR1004L | 400 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 150 | A-405 |
| PR1005L | 600 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 250 | A-405 |
| PR1006L | 800 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 500 | A-405 |
| PR1007L | 1000 | 1.0 | 30 | 5 | 100 | 1.2 | 1 | 500 | A-405 |

1) T_J=125 °C

2) T_J=150 °C



DO-15



DO-41



A-405



DO-201AD



R6

Fast Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|-------------------|-------------------------|-----|-----------------------------------|----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | 25 °C uA | 100 °C uA | V | A | nS | |
| PR1504 | 400 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 150 | DO-15 |
| PR1505 | 600 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 250 | DO-15 |
| PR1506 | 800 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 500 | DO-15 |
| PR1507 | 1000 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 500 | DO-15 |
| PR1504S | 400 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 150 | DO-41 |
| PR1505S | 600 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 250 | DO-41 |
| PR1506S | 800 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 500 | DO-41 |
| PR1507S | 1000 | 1.5 | 50 | 5 | 100 | 1.2 | 1.5 | 500 | DO-41 |
| PR2004 | 400 | 2.0 | 50 | 5 | 100 | 1.2 | 2 | 150 | DO-15 |
| PR2005 | 600 | 2.0 | 50 | 5 | 100 | 1.2 | 2 | 250 | DO-15 |
| PR2006 | 800 | 2.0 | 50 | 5 | 100 | 1.2 | 2 | 500 | DO-15 |
| PR2007 | 1000 | 2.0 | 50 | 5 | 100 | 1.2 | 2 | 500 | DO-15 |
| PR3004 | 400 | 3.0 | 150 | 5 | 100 | 1.2 | 3 | 300 | DO-201AD |
| PR3005 | 600 | 3.0 | 150 | 5 | 100 | 1.2 | 3 | 400 | DO-201AD |
| PR3006 | 800 | 3.0 | 150 | 5 | 100 | 1.2 | 3 | 500 | DO-201AD |
| PR3007 | 1000 | 3.0 | 150 | 5 | 100 | 1.2 | 3 | 500 | DO-201AD |
| PR6004 | 400 | 6.0 | 300 | 10 | 150 ¹⁾ | 1.2 | 6 | 150 | R6 |
| PR6005 | 600 | 6.0 | 300 | 10 | 150 ¹⁾ | 1.2 | 6 | 250 | R6 |
| PR6006 | 800 | 6.0 | 300 | 10 | 150 ¹⁾ | 1.2 | 6 | 500 | R6 |
| PR6007 | 1000 | 6.0 | 300 | 10 | 150 ¹⁾ | 1.2 | 6 | 500 | R6 |

Leaded Rectifiers - Glass Passivated

| | | | | | | | | | |
|----------|------|-----|----|---|-------------------|-----|-----|-----|-------|
| 1N4936G | 400 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 130 | DO-41 |
| 1N4937G | 600 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 130 | DO-41 |
| 1N4936GL | 400 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 130 | A-405 |
| 1N4937GL | 600 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 130 | A-405 |
| PR1004G | 400 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 150 | DO-41 |
| PR1005G | 600 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 250 | DO-41 |
| PR1006G | 800 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 500 | DO-41 |
| PR1007G | 1000 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 500 | DO-41 |
| PR1006R | 800 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 300 | DO-41 |
| PR1007R | 1000 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 300 | DO-41 |
| PR1004GL | 400 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 150 | A-405 |
| PR1005GL | 600 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 250 | A-405 |
| PR1006GL | 800 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 500 | A-405 |
| PR1007GL | 1000 | 1.0 | 30 | 5 | 50 | 1.3 | 1 | 500 | A-405 |
| PR1504G | 400 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 150 | DO-15 |
| PR1505G | 600 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 250 | DO-15 |
| PR1506G | 800 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 500 | DO-15 |
| PR1507G | 1000 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 500 | DO-15 |

1) T_J=125 °C

2) T_J=150 °C



DO-41



DO-15



DO-201AD

Fast Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|---|-------------------|-------------------------|-----|-----------------------------------|----------|
| | VR =V _{R RM} | I _{FAV} | I _{FSM} | IR at VR=V _{R RM} T _j) | | V _{Fmax} at IF | | T _{rr} (max) @RG1 CKT | |
| | V | A | A | 25 °C | 100 °C | V | A | nS | |
| PR1504GS | 400 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 150 | DO-41 |
| PR1505GS | 600 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 250 | DO-41 |
| PR1506GS | 800 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 500 | DO-41 |
| PR1507GS | 1000 | 1.5 | 50 | 5 | 100 ¹⁾ | 1.3 | 1.5 | 500 | DO-41 |
| PR2004G | 400 | 2.0 | 80 | 5 | 100 ¹⁾ | 1.3 | 2 | 150 | DO-15 |
| PR2005G | 600 | 2.0 | 80 | 5 | 100 ¹⁾ | 1.3 | 2 | 250 | DO-15 |
| PR2006G | 800 | 2.0 | 80 | 5 | 100 ¹⁾ | 1.3 | 2 | 500 | DO-15 |
| PR2007G | 1000 | 2.0 | 80 | 5 | 100 ¹⁾ | 1.3 | 2 | 500 | DO-15 |
| PR3004G | 400 | 3.0 | 125 | 5 | 100 ¹⁾ | 1.3 | 3 | 150 | DO-201AD |
| PR3005G | 600 | 3.0 | 125 | 5 | 100 ¹⁾ | 1.3 | 3 | 250 | DO-201AD |
| PR3006G | 800 | 3.0 | 125 | 5 | 100 ¹⁾ | 1.3 | 3 | 500 | DO-201AD |
| PR3007G | 1000 | 3.0 | 125 | 5 | 100 ¹⁾ | 1.3 | 3 | 500 | DO-201AD |

1) T_j=125 °C

2) T_j=150°C

STANDARD RECOVERY RECTIFIERS





SMA



SMB



SMC



DO-41

Standard Recovery Rectifiers

| Part Number | Electrical Characteristics | | | | | | | Package |
|--|----------------------------|------------------|------------------|---|-------------------|-------------------------|-----|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) 25 °C 100 °C | | V _{Fmax} at IF | | |
| | V | A | A | uA | uA | V | A | |
| Surface Mount Rectifiers (Glass Passivated) | | | | | | | | |
| S1G | 400 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMA |
| S1J | 600 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMA |
| S1K | 800 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMA |
| S1M | 1000 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMA |
| S1GB | 400 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMB |
| S1JB | 600 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMB |
| S1KB | 800 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMB |
| S1MB | 1000 | 1.0 | 30 | 5 | 100 ₁₎ | 1.1 | 1 | SMB |
| S2G | 400 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMB |
| S2J | 600 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMB |
| S2K | 800 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMB |
| S2M | 1000 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMB |
| S2GA | 400 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMA |
| S2JA | 600 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMA |
| S2KA | 800 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMA |
| S2MA | 1000 | 1.5 | 50 | 5 | 125 ₁₎ | 1.15 | 1.5 | SMA |
| S2GH | 400 | 2.0 | 50 | 5 | 125 ₁₎ | 1.15 | 2.0 | SMB |
| S2JH | 600 | 2.0 | 50 | 5 | 125 ₁₎ | 1.15 | 2.0 | SMB |
| S2KM | 800 | 2.0 | 50 | 5 | 125 ₁₎ | 1.15 | 2.0 | SMB |
| S2MH | 1000 | 2.0 | 50 | 5 | 125 ₁₎ | 1.15 | 2.0 | SMB |
| S3G | 400 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMC |
| S3J | 600 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMC |
| S3K | 800 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMC |
| S3M | 1000 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMC |
| S3GB | 400 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMB |
| S3JB | 600 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMB |
| S3KB | 800 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMB |
| S3MB | 1000 | 3.0 | 100 | 10 | 250 ₁₎ | 1.15 | 3 | SMB |
| S5GC | 400 | 5.0 | 100 | 10 | 250 ₁₎ | 1.15 | 5 | SMC |
| S5JC | 600 | 5.0 | 100 | 10 | 250 ₁₎ | 1.15 | 5 | SMC |
| S5KC | 800 | 5.0 | 100 | 10 | 250 ₁₎ | 1.15 | 5 | SMC |
| S5MC | 1000 | 5.0 | 100 | 10 | 250 ₁₎ | 1.15 | 5 | SMC |
| S8GC | 400 | 8.0 | 200 | 10 | 250 ₁₎ | 0.985 | 8.0 | SMC |
| S8JC | 600 | 8.0 | 200 | 10 | 250 ₁₎ | 0.985 | 8.0 | SMC |
| S8KC | 800 | 8.0 | 200 | 10 | 250 ₁₎ | 0.985 | 8.0 | SMC |
| S8MC | 1000 | 8.0 | 200 | 10 | 250 ₁₎ | 0.985 | 8.0 | SMC |

1) T_J=125 °C

2) T_J=150°C



DO-41

A-405

DO-15

DO-201AD

R6

T-1

Standard Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-----------------------------------|----------------------------|------------------|------------------|--|--------|-------------------------|-----|----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | V | A | A | 25 °C | 100 °C | V | A | |
| Leaded Rectifiers - Open Junction | | | | | | | | |
| 1N4004 | 400 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4005 | 600 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4006 | 800 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4007 | 1000 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4004T | 400 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4005T | 600 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4006T | 800 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4007T | 1000 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | DO-41 |
| 1N4004L | 400 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | A-405 |
| 1N4005L | 600 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | A-405 |
| 1N4006L | 800 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | A-405 |
| 1N4007L | 1000 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | A-405 |
| 1N5395 | 400 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-15 |
| 1N5397 | 600 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-15 |
| 1N5398 | 800 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-15 |
| 1N5399 | 1000 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-15 |
| 1N5395S | 400 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-41 |
| 1N5397S | 600 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-41 |
| 1N5398S | 800 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-41 |
| 1N5399S | 1000 | 1.5 | 50 | 5 | 50 | 1.1 | 1.5 | DO-41 |
| LT1504 | 400 | 1.5 | 60 | 5 | 50 | 1.0 | 1.5 | DO-15 |
| LT1505 | 600 | 1.5 | 60 | 5 | 50 | 1.0 | 1.5 | DO-15 |
| LT1506 | 800 | 1.5 | 60 | 5 | 50 | 1.0 | 1.5 | DO-15 |
| LT1507 | 1000 | 1.5 | 60 | 5 | 50 | 1.0 | 1.5 | DO-15 |
| LT2A04 | 400 | 2.0 | 70 | 5 | 50 | 1.1 | 2 | DO-15 |
| LT2A05 | 600 | 2.0 | 70 | 5 | 50 | 1.1 | 2 | DO-15 |
| LT2A06 | 800 | 2.0 | 70 | 5 | 50 | 1.1 | 2 | DO-15 |
| LT2A07 | 1000 | 2.0 | 70 | 5 | 50 | 1.1 | 2 | DO-15 |
| 1N5404 | 400 | 3.0 | 200 | 10 | 50 | 1.0 | 3 | DO-201AD |
| 1N5406 | 600 | 3.0 | 200 | 10 | 50 | 1.0 | 3 | DO-201AD |
| 1N5407 | 800 | 3.0 | 200 | 10 | 50 | 1.0 | 3 | DO-201AD |
| 1N5408 | 1000 | 3.0 | 200 | 10 | 50 | 1.0 | 3 | DO-201AD |
| LT6A04 | 400 | 6.0 | 400 | 10 | 100 | 1.0 | 6 | R6 |
| LT6A05 | 600 | 6.0 | 400 | 10 | 100 | 1.0 | 6 | R6 |
| LT6A06 | 800 | 6.0 | 400 | 10 | 100 | 1.0 | 6 | R6 |
| LT6A07 | 1000 | 6.0 | 400 | 10 | 100 | 1.0 | 6 | R6 |
| LT10A04 | 400 | 10 | 600 | 10 | 100 | 1.0 | 10 | R6 |
| LT10A05 | 600 | 10 | 600 | 10 | 100 | 1.0 | 10 | R6 |
| LT10A06 | 800 | 10 | 600 | 10 | 100 | 1.0 | 10 | R6 |
| LT10A07 | 1000 | 10 | 600 | 10 | 100 | 1.0 | 10 | R6 |

1) T_J=125 °C2) T_J=150 °C



T-1



DO-41



A-405



DO-15



DO-201AD

Standard Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|--------------------------------------|----------------------------|------------------|------------------|--|-------------------|-------------------------|-----|----------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | V | A | A | 25 °C | 100 °C | V | A | |
| Leaded Rectifiers - Glass Passivated | | | | | | | | |
| D4G | 400 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | T1 |
| D5G | 600 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | T1 |
| D6G | 800 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | T1 |
| D7G | 1000 | 1.0 | 30 | 5 | 50 | 1.0 | 1 | T1 |
| 1N4004G | 400 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | DO-41 |
| 1N4005G | 600 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | DO-41 |
| 1N4006G | 800 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | DO-41 |
| 1N4007G | 1000 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | DO-41 |
| 1N4004GL | 400 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | A-405 |
| 1N4005GL | 600 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | A-405 |
| 1N4006GL | 800 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | A-405 |
| 1N4007GL | 1000 | 1.0 | 30 | 5 | 50 ₁₎ | 1.1 | 1 | A-405 |
| LT1504G | 400 | 1.5 | 50 | 5 | 200 ₁₎ | 1.1 | 1.5 | DO-15 |
| LT1505G | 600 | 1.5 | 50 | 5 | 200 ₁₎ | 1.1 | 1.5 | DO-15 |
| LT1506G | 800 | 1.5 | 50 | 5 | 200 ₁₎ | 1.1 | 1.5 | DO-15 |
| LT1507G | 1000 | 1.5 | 50 | 5 | 200 ₁₎ | 1.1 | 1.5 | DO-15 |
| LT2A04G | 400 | 2.0 | 65 | 5 | 200 ₁₎ | 1.1 | 2 | DO-15 |
| LT2A05G | 600 | 2.0 | 65 | 5 | 200 ₁₎ | 1.1 | 2 | DO-15 |
| LT2A06G | 800 | 2.0 | 65 | 5 | 200 ₁₎ | 1.1 | 2 | DO-15 |
| LT2A07G | 1000 | 2.0 | 65 | 5 | 200 ₁₎ | 1.1 | 2 | DO-15 |
| 1N5404G | 400 | 3.0 | 125 | 5 | 100 ₁₎ | 1.1 | 3 | DO-201AD |
| 1N5406G | 600 | 3.0 | 125 | 5 | 100 ₁₎ | 1.1 | 3 | DO-201AD |
| 1N5407G | 800 | 3.0 | 125 | 5 | 100 ₁₎ | 1.1 | 3 | DO-201AD |
| 1N5408G | 1000 | 3.0 | 125 | 5 | 100 ₁₎ | 1.1 | 3 | DO-201AD |

1) T_j=125 °C

2) T_j=150 °C

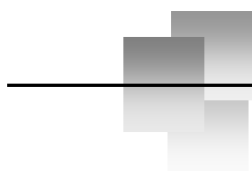


TO-126F

Standard Recovery Rectifiers (continued)

| Part Number | Electrical Characteristics | | | | | | | Package |
|-------------|----------------------------|------------------|------------------|--|--------|-------------------------|-----|---------|
| | VR =V _{RRM} | I _{FAV} | I _{FSM} | IR at VR=V _{RRM} T _J) | | V _{Fmax} at IF | | |
| | 25 °C | 100 °C | | | V | A | | |
| | V | A | A | uA | uA | V | A | |
| GT5404 | 400 | 3.0 | 100 | 5 | 150 1) | 1.1 | 3.0 | TO-126F |
| GT5406 | 600 | 3.0 | 100 | 5 | 150 1) | 1.1 | 3.0 | TO-126F |
| GT5407 | 800 | 3.0 | 100 | 5 | 150 1) | 1.1 | 3.0 | TO-126F |
| GT5408 | 1000 | 3.0 | 100 | 5 | 150 1) | 1.1 | 3.0 | TO-126F |

1) T_J=125 °C



SWITCHING DIODE



LL-34



0603



0805



1206

Switching Diode

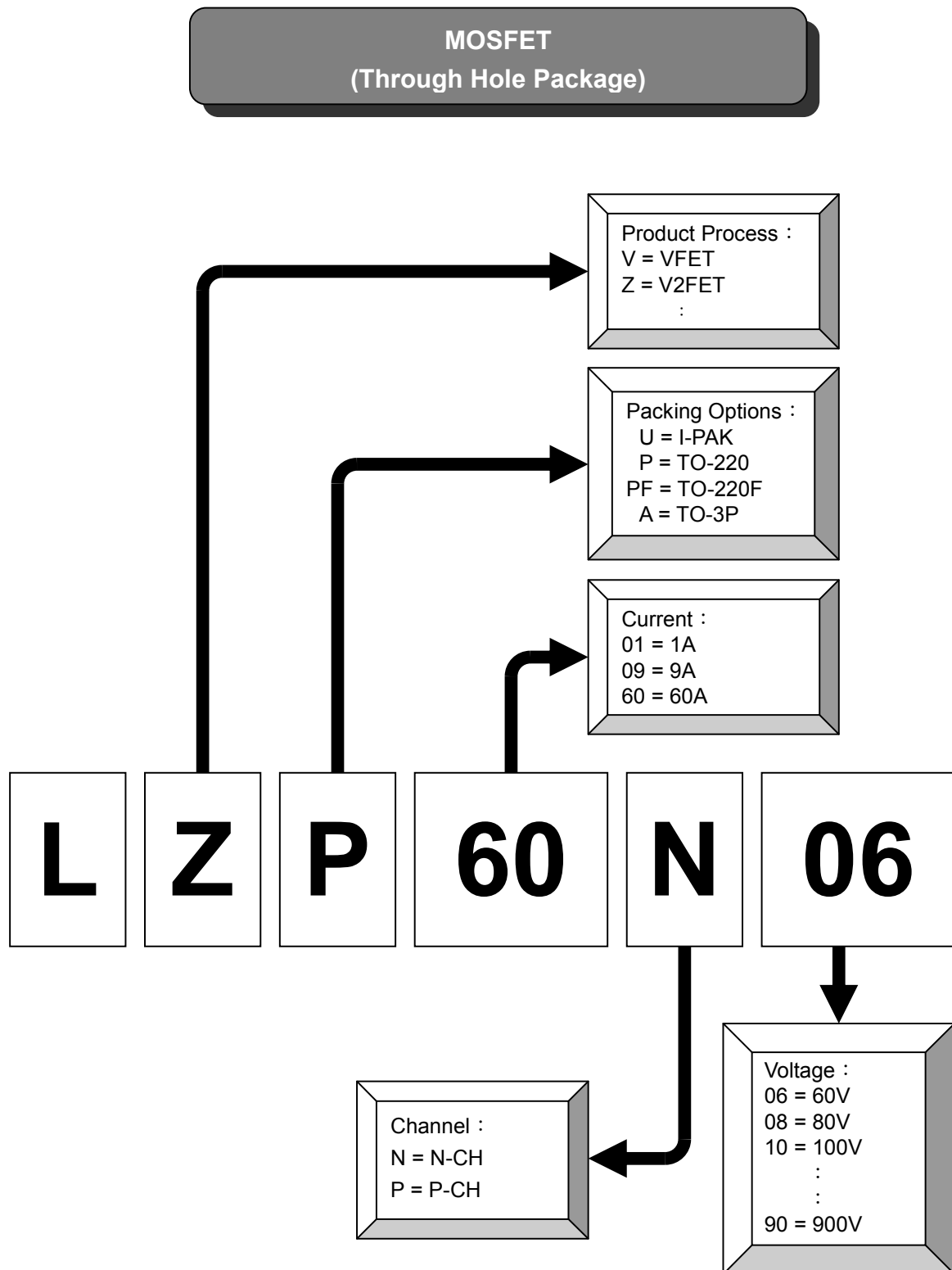
| Part Number | Configuration | Electrical Characteristics | | | | | | | | | Package |
|-------------|---------------|----------------------------|-------------------------------------|-------------------------------|--------------------------------|--------------------------|----|---------------------|-----|----------------------|---------|
| | | Power Dissipation | Min Peak Repetitive Reverse Voltage | Max Average Rectifier Current | Max Peak Forward Surge Current | Max Forward Voltage Drop | | Max Reverse Current | | Junction Capacitance | |
| | | Pd | VRRM | I _{FAV} | I _{FSM} | V _{Fmax} at IF | | IR at VR | | C _J | |
| | | mW | V | mA | A | V | mA | uA | V | pF | |
| LS4148WS | Single | 400 | 100 | 150 | 2 | 1.0 | 10 | 5 | 75 | 4 | 0805 |
| LS4148WT | Single | 400 | 100 | 150 | 2 | 1.0 | 10 | 5 | 75 | 4 | 0603 |
| LS4148W | Single | 400 | 100 | 150 | 2 | 1.0 | 10 | 5 | 75 | 4 | 1206 |
| LL4148 | Single | 500 | 100 | 150 | 2 | 1.0 | 10 | 1 | 100 | 4 | LL-34 |



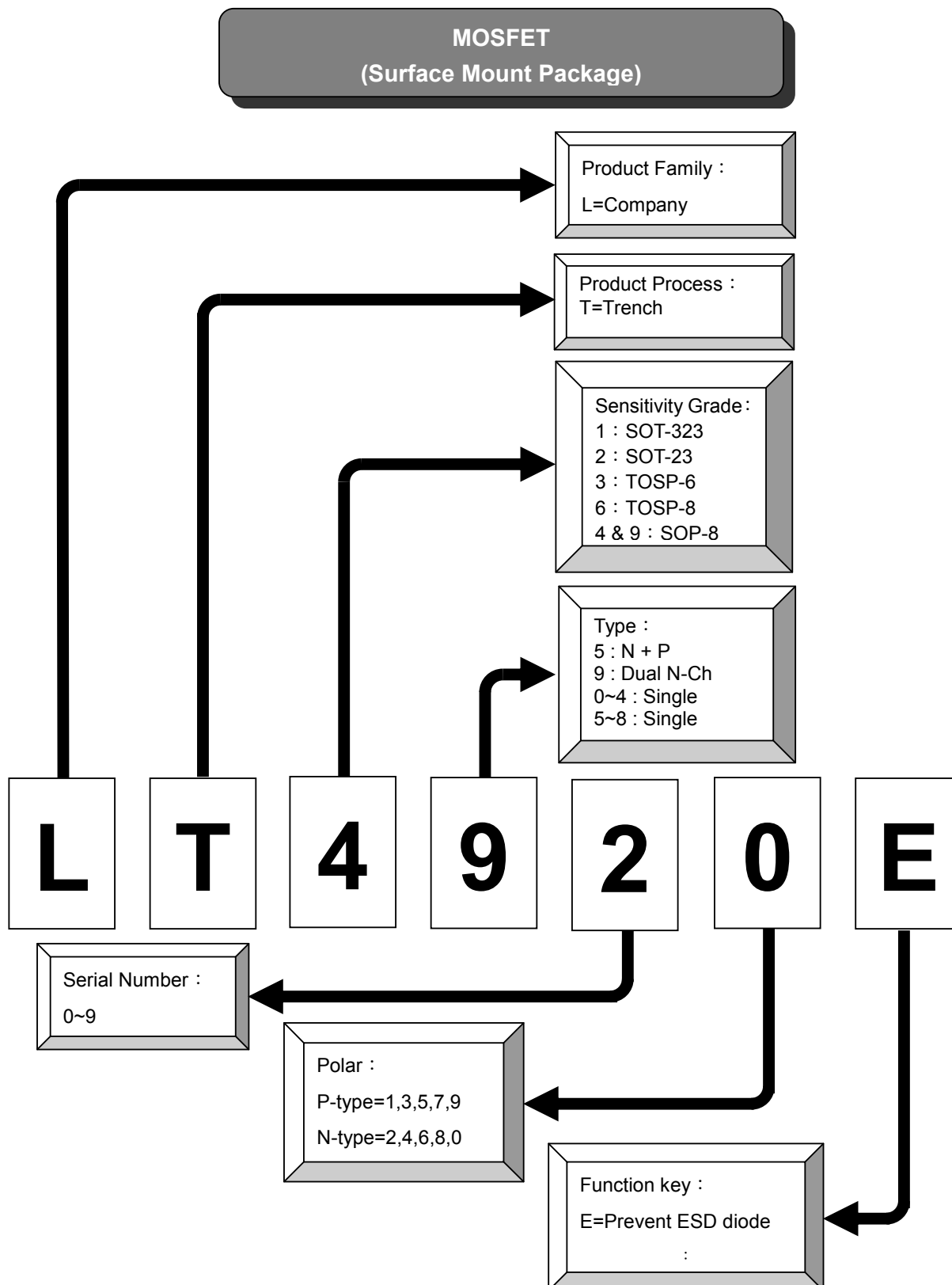
APPENDIX

| | |
|--|----------------|
| ● MOSFET ORDERING INFORMATION ----- | Page 95 ~ 96 |
| ● TRIAC /SCR /SIDAC ORDERING INFORMATION ----- | Page 97 ~ 99 |
| ● APPLICATION NOTE ----- | Page 100 ~ 101 |
| ● RECOMMENDED SOLDERING TECHNIQUES ----- | Page 102 ~ 108 |
| ● OUTLINE DIMENSIONS ----- | Page 109 ~ 116 |
| ● PACKAGING METHOD ----- | Page 117 ~ 128 |
| ● CROSS REFERENCE ----- | Page 129 ~ 147 |

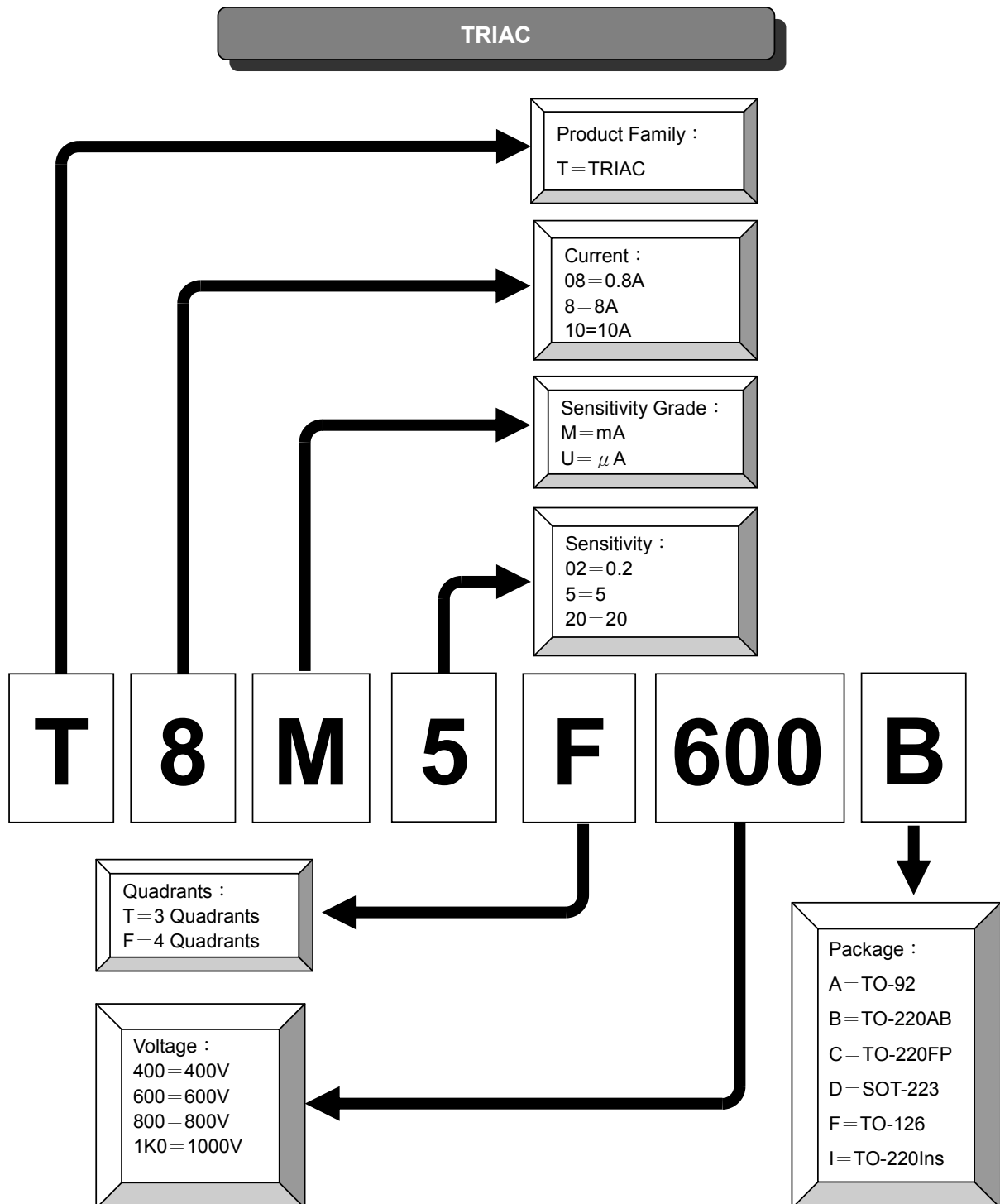
ORDERING INFORMATION



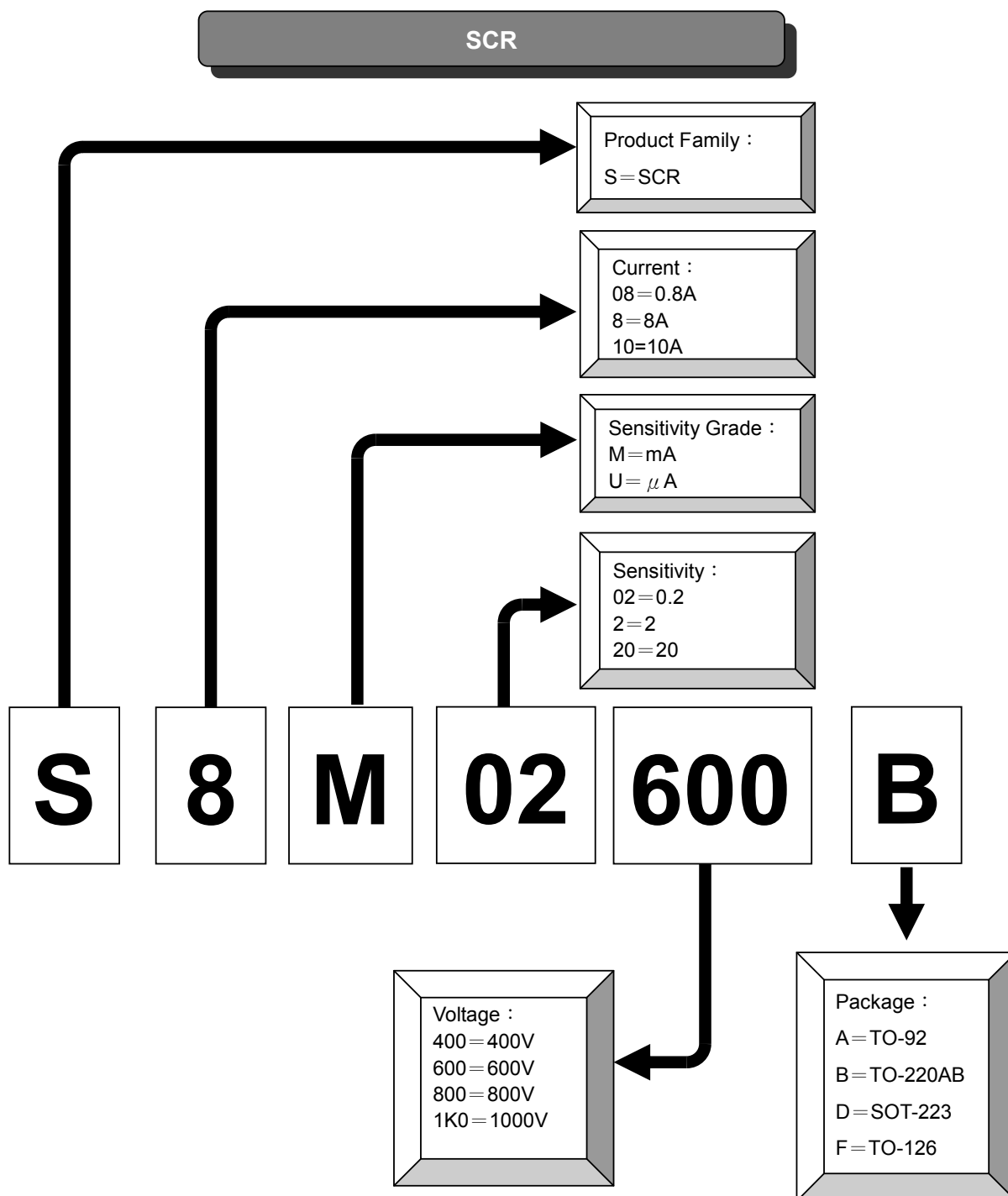
ORDERING INFORMATION (Continue)



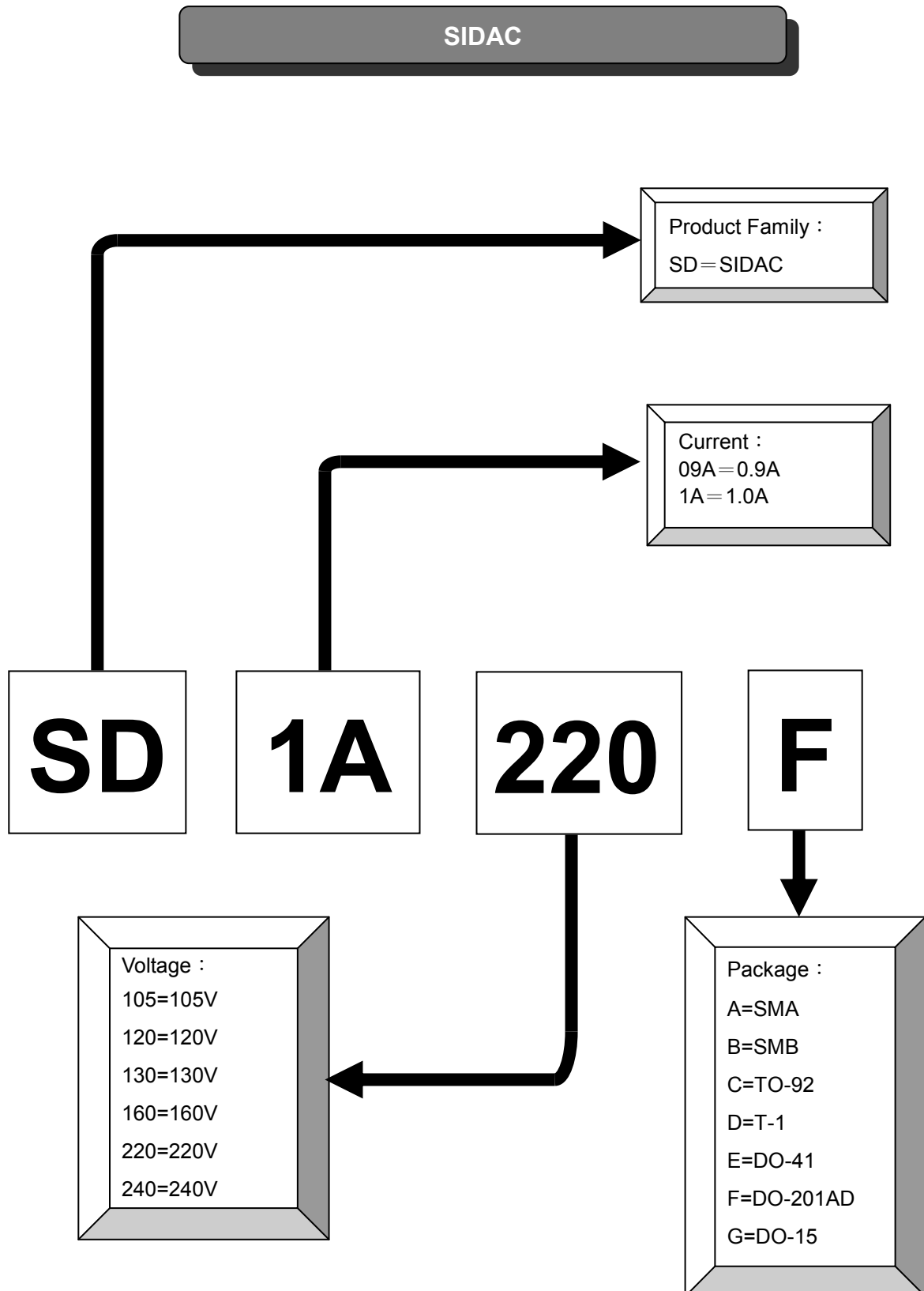
ORDERING INFORMATION (Continue)



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ORDERING INFORMATION (Continue)



**Application Note ---
Bending Terminal Leads**

When bending the leads, in order to avoid excessive extend in the area where the leads enter the resinous body, use a tool that clamps the point between the package and the bending point. Improper bending will damage the die or separate the resin from the mounting frame, resulting in a degradation in electrical characteristics or a reliability problem such as poor resistance to moisture.

The leads must be bent only once and they should not be bent at an angle of more than 90°. Leads must be formed before fixing them to a printed circuit board or to a heatsink. Never form the leads after soldering.

Recommended distances are :

2 mm for DO-41 Mini, DO-41, DO-15 CASE.

3 mm for DO-201AD CASE.

4 mm for R-6 CASE.

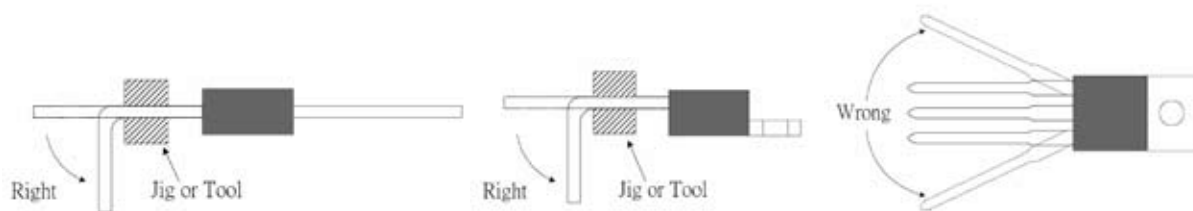


Figure 1. Bending Terminal Leads

Mounting to Heatsink

The mounting surface of a heatsink for TO-220, TO-3P should be free from foreign materials and metallic filings, and have enough flatness and finish comparable to that of the back of diode package. Be sure, when mounting devices to a heatsink, that excessive torque may cause a mechanical failure of the device or a reliability problem. Also note, insufficient torque results in poorer heat transmission. Recommended mounting hole, screw and mounting torque corresponding to our packages are shown in Table.

| Package | Mounting hole (ϕ = mm) | Screw | Torque (N*m /kgf*cm) |
|---------|---------------------------------|-------|-------------------------|
| TO-220 | 3.81 | M3 | 0.50 /5.1 |
| TO-3P | 3.05 | | |
| BRIDGE | --- | M3/M5 | 0.78 / 8 |
| ITO-220 | 3.18 | M3 | 0.50 / 5.1 |
| TO-126F | 2.92 | M2.5 | 0.50 /5.1 |

Thermal compounds (greases) facilitate interface thermal conduction between device and heatsink. Recommended compounds are hydrophilic oil based. When applied, compounds should be spread evenly in a very thin layer over the whole contact area.

The contact thermal resistance $R_{th\ j-c}$ in our data sheets are defined with the recommended mounting torque and with the thermal compound.

Soldering of Through-hole Mounting Devices

Resistance to soldering heat test is carried out under the condition shown below. Soldering should be completed at a lowest possible temperature for a shortest period.

Temp. $260 \pm 5^\circ\text{C}$

Duration $10 \pm 1\text{s}$

Figure 12 shows the Dip duration vs. Solder Temperature Rating for plastic diodes.

General requirements for manual soldering are as follows:

1. Use a soldering iron of 30 watts maximum, that is grounded or with a high insulation resistance.
2. The iron tip is kept away from any resinous body.
3. Attachment should be achieved in not more than 3 seconds.

Be sure again not to put an excessive mechanical stress on devices, such as a rough insertion of device into a through-hole, or manual reforming of leads after soldering.

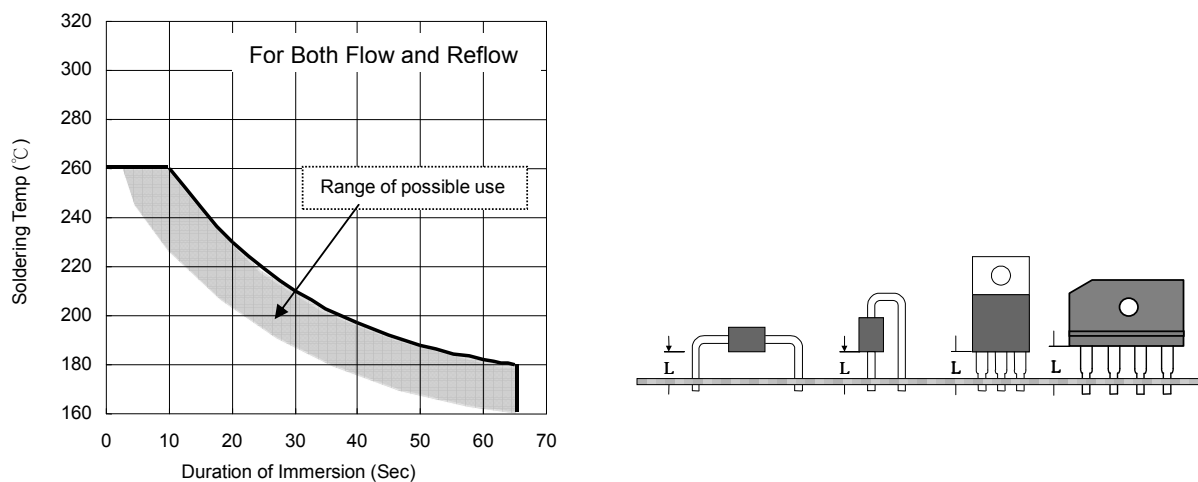


Figure 2. Rated Duration of Immersion vs. Solder Temperature

Recommended Soldering Techniques

Introduction

The soldering process is the means by which electronic components are mechanically and electrically connected into the circuit assembly. Adhering to good soldering practices will preserve the inherent reliability of the original components and ensure a good, reliable connection of the component into the circuit assembly.

Soldering Considerations

Substrates : A substrate is a material which constitutes a printed circuit board, commonly called a PCB.

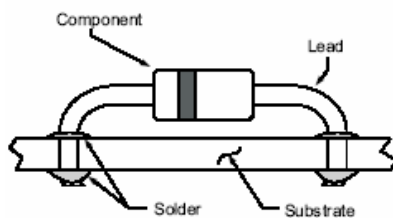


Fig. 1 Axial-Leaded Components

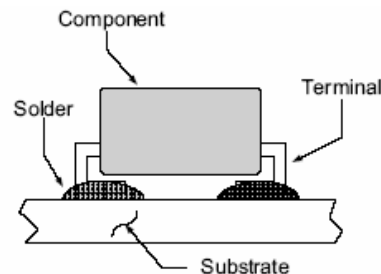


Fig. 2 Surface Mount Components

There are many different types of PCB substrate materials. Among the most common are the following:

| Substrate | <u>Advantages</u> | <u>Disadvantages</u> |
|------------------|--|--|
| Phenolic | Very inexpensive, easy to punch and drill. | Poor resistance to vibration and mechanical shock. |
| FR-4 | Inexpensive, moderately easy to drill. | Cannot be punched, heavy components need mechanical support. |
| Alumina | Good resistance to mechanical shock. | Expensive, poor coefficient of expansion match to glass. |

To select the most appropriate substrate material for the application, the designer of the circuit assembly must weigh these five factors:

1. coefficients of expansion for all the components which will be soldered onto the PCB,
2. coefficient of expansion for the substrate,
3. cost of the substrate,
3. cost of any secondary operations to the substrate, such as the drilling of "through-holes", and
5. application-specific issues, such as vibration resistance and weight.

It is important to match the coefficients of expansion for the components to those for the PC board. When a PCB assembly is soldered and the coefficients of expansion for the components and the PC board are not matched, the solder joints may crack or the bodies of the parts may crack or shatter as the assembly cools.

PCB Pad Layout and Solder Paste Thickness: It is important to use proper layout patterns in order to ensure good solder connections, especially for surface mount components soldered by a reflow process. Many surface mount components have more than three terminals which form the “footprint” for the devices. Ideally, every terminal of the device would be formed to create a perfect mounting plane. In the real world, there is a tolerance associated with how close each lead comes to meeting the intended plane. A measure of this characteristic is called coplanarity. In most cases, some of the terminals of a device will not be perfectly aligned with the intended mounting plane. In an infrared reflow solder process, the PCB pads are coated with a solder paste (Figure 3). When the assembly is heated in an oven, the solder paste warms and reflows. As the solder paste liquefies, it forms an apex at the center of the PCB pad. This apex must contact the terminal of the device in order to make contact. When using an IR reflow process, the solder process engineer must take into account the pad layout and the coplanarity of the devices when determining the solder paste thickness. Figure 4 shows a failure mode where the device has poor coplanarity and the solder paste thickness is insufficient for the apex of the liquefied solder to contact the poorly formed terminal.

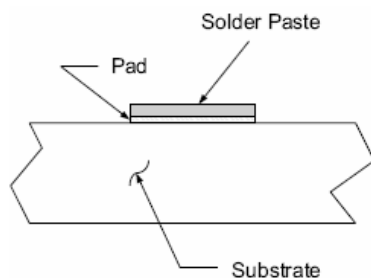


Fig. 3 PCB With Solder Paste Before

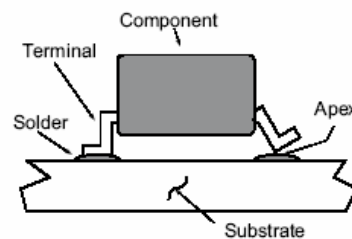


Fig. 4 Device Exhibiting Poor Coplanarity

Component Insertion and Reflow

Care must also be taken not to use too much solder paste. Excessive solder paste will result in too much solder on the pad. The terminals of many surface mount components are designed to flex, which allows the terminals of the component to withstand mechanical and thermal stress without fracturing. When excessive solder is applied, the terminals become captivated within the solder and force is transferred away from the terminals and into the internal structure of the device. This can lead to immediate or latent failures. Figure 5 shows a solder connection with the proper amount of solder and figure 6 shows excessive solder.

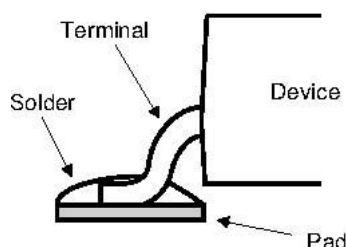


Fig. 5 A Good Solder Connection

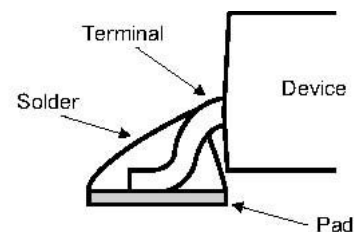


Fig. 6 Excessive Solder

Fluxing and Cleaning: Another major consideration in soldering is fluxing. Flux, used in conjunction with solder during the soldering process, is the material that aids the solder in flowing. The selection of the proper flux and its correct application are essential to proper soldering. Fluxes have differing levels of activity, or abilities to remove contaminants from the device terminals and PCB pads.

A key characteristic of fluxes is their solubility. The solubility of the flux determines which wash processes can be used to remove the flux. In the past, many circuit assembly facilities used active, non-water soluble fluxes. Active fluxes are able to remove surface oxides from the leads or terminals of the devices and result in even, smooth solder joints with excellent wettability. However, active fluxes are highly corrosive. When active fluxes are not completely removed, the solder joints are more likely to corrode and the long-term reliability of the assembly may be degraded. Active fluxes must be removed from the PCB. The removal process is called cleaning or washing. Many materials which are highly effective at removing flux (such as freon and trichloroethane) became subject to environmental legislation several years ago, and they are now illegal in environmentally-conscious countries. As a result of these concerns, the following two trends have emerged:

1. Some circuit assemblers have migrated to low activity fluxes. Fluxes are available now which have such low activity levels that it is not necessary to remove them from the PCB. Such fluxes are commonly referred to as “no-wash” “leave-on” fluxes. However, low activity fluxes frequently lead to wettability problems. Wettability is a measure of how well the solder joins the device lead or terminal to the PC board (Figure 7). Two important factors in a low-activity flux process are the cleanliness of the device leads or terminals, and the plating thickness of the leads or terminals. If the terminals of a device are not sufficiently clean, de-wetting can occur. If the plating thickness of the device terminals is insufficient, non-wetting can occur.

- De-wetting: Fluxes with low activity levels are not as effective at removing oxides and contaminants from device leads or terminals as active fluxes. When contaminants are not properly removed from the pads and/or the leads of the devices, de-wetting can occur. De-wetting is characterized by irregular and dispersed solder droplets on the joint surface, often separated by a thin layer of solder between them.
- Non-wetting: Solder may not adhere to the leads or terminals of a device if the plating thickness is too thin. This problem especially applies to axial-leaded devices since the solder must bridge across the through-hole from the pad to the lead (Figure 8)

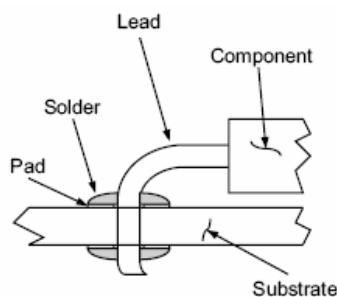


Fig. 7 A Solder Joint Exhibiting Good Wetting

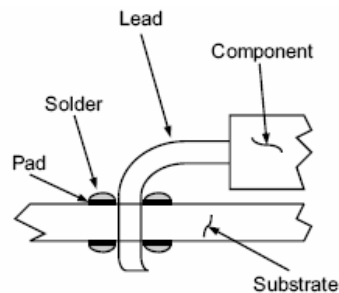


Fig. 8 Non-wetting Solder Joint

2. Due to the aforementioned concerns pertaining to low activity fluxes, the electronics industry has developed highly active fluxes which are water soluble. These new types of fluxes offer the effectiveness of a highly active flux in conjunction with water-solubility for ease of cleaning.

Plating Composition: The leads or terminals of components usually consist of either copper, a copper alloy, or other alloys such as domet. The leads are plated with one or more other metals. Three common plating materials are tin, lead, and silver. The composition of the plating material directly affects the solderability of the device. When an alloy is used for plating, the temperature at which it transitions from its solid to liquid state is called the eutectic temperature. Many axial-leaded components are plated with either 100% Tin (Sn), or 90% Tin (Sn)/10% Lead (Pb). 100% Tin has a melting point of approximately 232°C, and 90Sn/10Pb has a eutectic temperature of approximately 216°C. Many surface mount components are plated with an alloy of 60% Tin, 40% Lead (Pb), which is eutectic at approximately 190°C. The eutectic temperature of the plating alloy determines the minimum limit of the soldering process temperature in order to reflow the plating on the device's leads or terminals.

Body Composition: The body composition of the devices is also pertinent to the soldering process. The body material of many components consists of plastic epoxies, which can be grouped into two main categories:

- **Thermoplastics:** Thermoplastics can be melted and remolded more than once. One such body material is called Thermoplastics, which melts at around 280°C. Thermoplastics has a melting temperature which is relatively close to the eutectic point of the plating on their leads or terminals. Solder process engineers should make sure that the peak soldering temperature does not exceed the melting temperature of any thermoplastic-bodied devices.
- **Thermosetting plastics:** In contrast to thermoplastics, thermosetting plastics, such as Duroplast, are formed only once. Subsequent exposures to high temperatures (such as those in the range of most solder processes) cause the material to harden instead of soften. Exposure to excessively high heat causes a thermosetting plastic to crack or crumble.

Soldering Methods and Process Stages

Soldering methods commonly used today include:

- **Wave soldering:** Wave soldering is still widely employed for axial leaded devices and for mixed technology boards. Surface mount components can be wave soldered successfully if the recommendations in this document are followed. Surface mount components must first be mounted to the PCB with an adhesive before they can pass through the solder wave.
- **Reflow soldering:** Most surface mount components are reflow soldered. The two major types of reflow processes are:
 1. Infrared reflow- the most common type of reflow process.
 2. Vapor phase reflow- rapidly disappearing due to environmental restrictions on fluorocarbons.

There are four process stages in soldering:

1. **Preheat:** The preheat process is very important in any kind of soldering process. To avoid thermally shocking the components, PCB assemblies must be preheated. Immediate or latent damage can occur to the components if they are not preheated properly.
2. **Soak:** A soak period is advisable so that components of differing thermal mass will approach a similar temperature prior to the peak stage. During reflow soldering, this is the period where the flux begins to break down the oxides which would inhibit solder adhesion.

Soldering Methods and Process Stages (continued)

3. Peak/Reflow:

- Temperature: The range of the peak soldering temperature depends on several factors, two of which have been described in previous sections: plating and body compositions. The minimum soldering temperature range should be at least 5-10°C higher than the eutectic temperature of the plating alloy. The maximum soldering temperature should be at least 5-10°C lower than the melting temperature of any thermoplastic components (if used).
- Time: The devices must be held at the peak soldering temperature long enough to ensure the proper wetting of the solder connections. However, keeping the peak soldering time to a minimum to avoid the possibility of damage to the devices and to increase throughput, is recommended.

4. Cool down: After the devices are exposed to the peak soldering temperature, they go through a cool down process. Although some manufacturers cool their PCB assemblies in free air, it is better to use a controlled temperature chamber for superior control of the thermal gradient.

Suggested Thermal Profiles for Soldering Processes

LSC presents the following general thermal profiles for soldering processes (Figures 9 and 10) as examples only. The solder process engineer should always optimize the thermal profile for each circuit assembly based on its specific requirements.

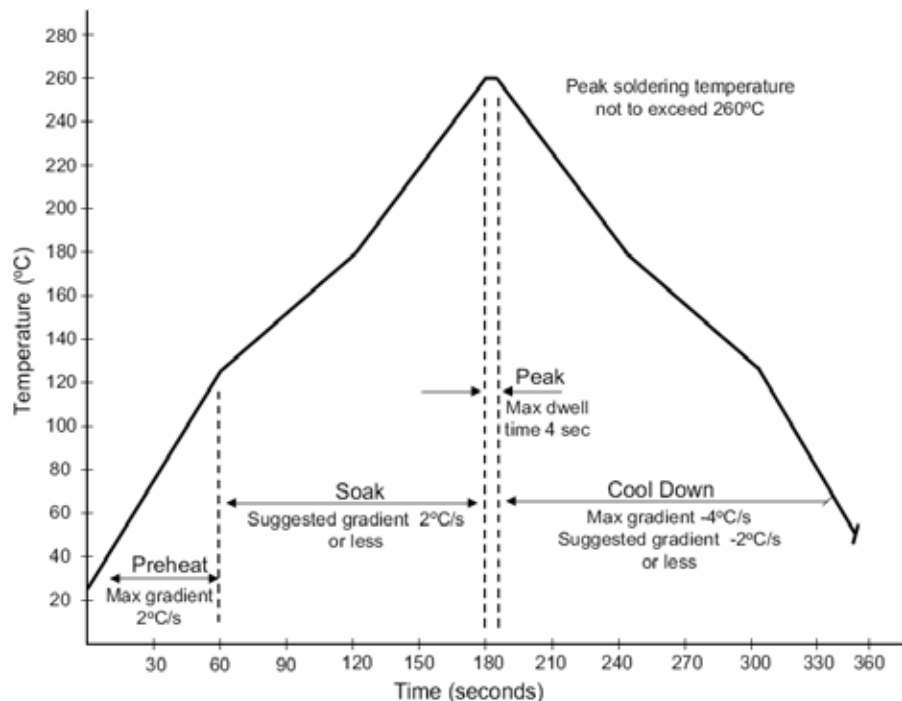


Fig. 9 Typical Wave Soldering Thermal Profile

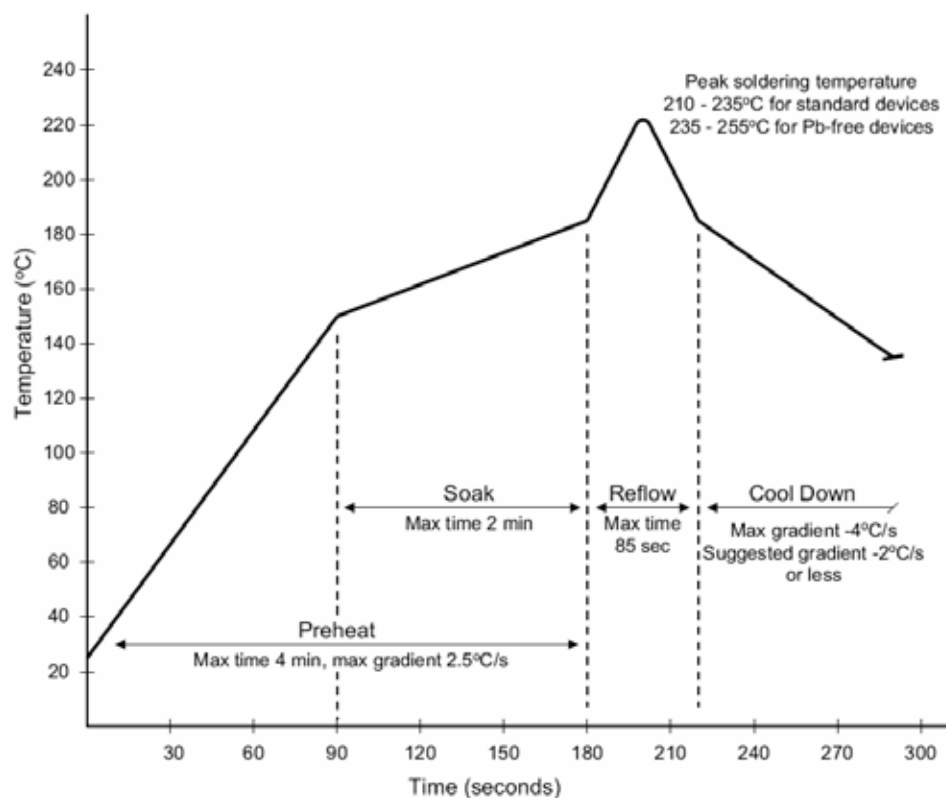


Fig. 10 Typical IR Reflow Soldering Thermal Profile

Soldering Process Suggestions

1. Due to the differing thermal capacities of large and small components and equipment wear, localized "hot spots" and "cold spots" may be generated during reflow soldering. Special care should be taken to avoid the damage of small components in "hot spots" and de-wetting or non-wetting of larger components in "cold spots". A good practice is to mount miniature thermocouples in several locations on the PCB which are suspected to be hot and cold spots. The reflow solder profile can then be adjusted accordingly to result in optimal soldering. A good practice is to place the PCB assemblies at regular, repeated positions on the conveyor system to achieve uniform soldering on successive assemblies.

Soldering Process Suggestions (Continued)

2. The leads on most LSC. RoHS compliant (Pb-free) devices have a Matte Tin (Sn) plating finish over an ALLOY 42 Lead Frame. Some devices have silver (Ag) plating. The Matte Tin finish requires a higher solder temperature (235-255°C) than our standard products (217-235°C), which have an tin/lead (Sn-Pb) finish.
3. IPC/JEDEC document J-STD-020C provides a reflow profile applicable to both Sn-Pb and Pb-free devices. This profile is not a recommendation for reflow soldering. Rather, it is a temperature vs. time profile that a device must withstand without failure in order to maintain a desired moisture sensitivity level. In that sense, it represents the maximum stress to which a device should be subjected.
4. LSC. soldering recommendations are within the JEDEC profile and should be considered a reasonable starting point in developing a profile for reflow soldering. Actual temperatures will depend on your soldering alloy, PCB layout, weight of copper, pad sizes, and other variables. In any event, temperatures in excess of 260°C violate LSC. specifications.

Recommendations for Rework

Hot Gas Pencils: Hot gas pencils should be set up to limit the gas temperature to a maximum of 300°C at a distance of 3mm from the nozzle tip.

Soldering Irons:

1. Only thermostatically-controlled irons should be used. The bit should have a diameter not exceeding 1mm and should be set so that its maximum temperature never exceeds 300°C.
2. The bit must not touch the component body. Contact should only be with the component leads or the land pads on the printed circuit board (Figure 11).
3. The maximum permitted temperature-time combination on the component lead is 300°C for 10 seconds.

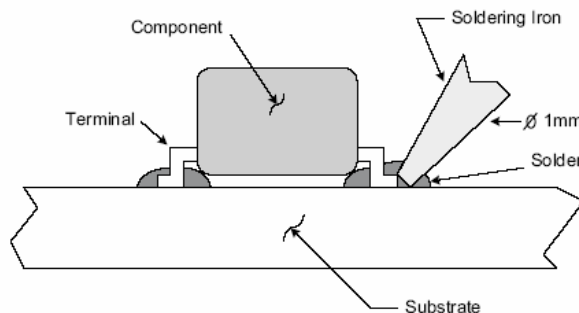
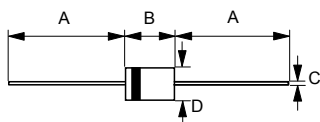


Fig. 11 Rework by Soldering Iron

OUTLINE DIMENSIONS

Fig. 1

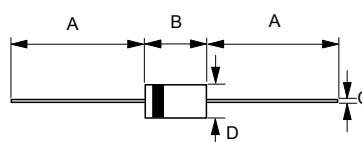
T-1



| T-1 | | |
|------------------------------|--------------------|--------------------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 2.60 | 3.20 |
| C | 0.53 \varnothing | 0.64 \varnothing |
| D | 2.20 \varnothing | 2.60 \varnothing |
| All Dimensions in millimeter | | |

Fig. 2

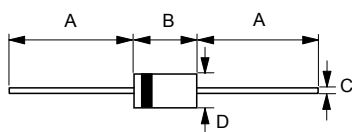
A-405



| A-405 | | |
|------------------------------|--------------------|--------------------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 4.10 | 5.20 |
| C | 0.53 \varnothing | 0.64 \varnothing |
| D | 2.00 \varnothing | 2.70 \varnothing |
| All Dimensions in millimeter | | |

Fig. 3

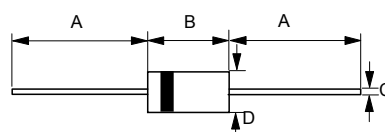
DO-41



| DO-41 | | |
|------------------------------|------|------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 4.10 | 5.20 |
| C | 0.71 | 0.86 |
| D | 2.00 | 2.70 |
| All Dimensions in millimeter | | |

Fig. 4

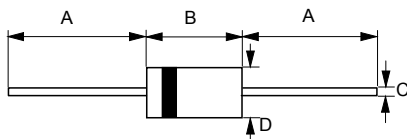
DO-15



| DO-15 | | |
|------------------------------|--------------------|--------------------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 5.80 | 7.60 |
| C | 0.71 \varnothing | 0.86 \varnothing |
| D | 2.60 \varnothing | 3.60 \varnothing |
| All Dimensions in millimeter | | |

Fig. 5

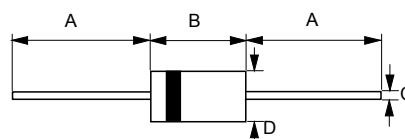
DO-201AD



| DO-201AD | | |
|------------------------------|--------------------|--------------------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 7.30 | 9.50 |
| C | 1.20 \varnothing | 1.30 \varnothing |
| D | 4.80 \varnothing | 5.30 \varnothing |
| All Dimensions in millimeter | | |

Fig. 6

DO-201

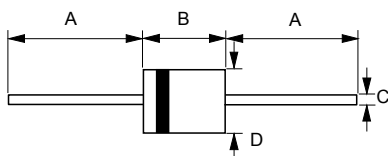


| DO-201 | | |
|------------------------------|--------------------|--------------------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 8.50 | 9.50 |
| C | 0.96 \varnothing | 1.06 \varnothing |
| D | 4.80 \varnothing | 5.30 \varnothing |
| All Dimensions in millimeter | | |

OUTLINE DIMENSIONS

Fig. 7

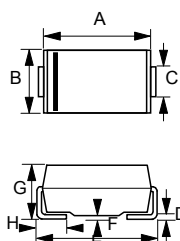
R-6



| R-6 | | |
|------------------------------|--------------------|--------------------|
| Dim. | Min. | Max. |
| A | 25.4 | - |
| B | 8.60 | 9.10 |
| C | 1.20 \varnothing | 1.30 \varnothing |
| D | 8.60 \varnothing | 9.10 \varnothing |
| All Dimensions in millimeter | | |

Fig. 8

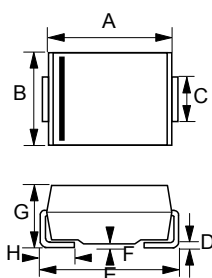
SMA



| SMA | | |
|------------------------------|------|------|
| DIM. | MIN. | MAX. |
| A | 4.06 | 4.57 |
| B | 2.29 | 2.92 |
| C | 1.27 | 1.63 |
| D | 0.15 | 0.31 |
| E | 4.83 | 5.59 |
| F | 0.05 | 0.20 |
| G | 2.01 | 2.62 |
| H | 0.76 | 1.52 |
| All Dimensions in millimeter | | |

Fig. 9

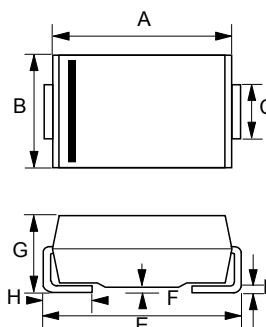
SMB



| SMB | | |
|------------------------------|------|------|
| DIM. | MIN. | MAX. |
| A | 4.06 | 4.57 |
| B | 3.30 | 3.94 |
| C | 1.96 | 2.21 |
| D | 0.15 | 0.31 |
| E | 5.21 | 5.59 |
| F | 0.05 | 0.20 |
| G | 2.01 | 2.62 |
| H | 0.76 | 1.52 |
| All Dimensions in millimeter | | |

Fig. 10

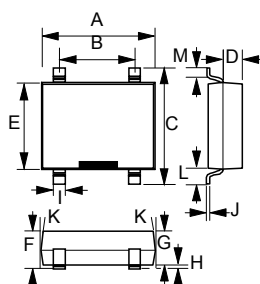
SMC



| SMC | | |
|------------------------------|------|------|
| DIM. | MIN. | MAX. |
| A | 6.60 | 7.11 |
| B | 5.59 | 6.22 |
| C | 2.92 | 3.18 |
| D | 0.15 | 0.31 |
| E | 7.75 | 8.13 |
| F | 0.05 | 0.20 |
| G | 2.01 | 2.62 |
| H | 0.76 | 1.52 |
| All Dimensions in millimeter | | |

Fig. 11

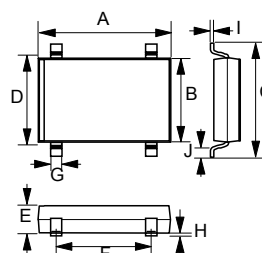
HDDF



| HDDF | | |
|------------------------------|------------|------|
| DIM. | MIN. | MAX. |
| A | 4.50 | 4.90 |
| B | 2.30 | 2.70 |
| C | - | 7.00 |
| D | 1.20 | 1.60 |
| E | 3.60 | 4.00 |
| F | - | 3.00 |
| G | 2.30 | 2.70 |
| H | - | 0.20 |
| I | 0.50 | 0.80 |
| J | 0.15 | 0.35 |
| K | 5° TYPICAL | |
| L | 1.30 | 1.70 |
| M | 0.70 | 1.10 |
| All Dimensions in millimeter | | |

Fig. 12

DF-S

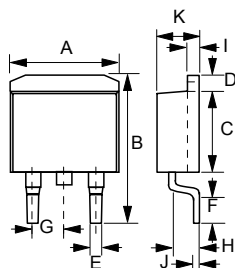


| DF-S | | |
|------------------------------|------|-------|
| DIM. | MIN. | MAX. |
| A | 8.20 | 8.50 |
| B | 6.20 | 6.50 |
| C | - | 10.30 |
| D | 7.40 | 7.90 |
| E | 2.40 | 2.60 |
| F | 5.00 | 5.20 |
| G | 1.00 | - |
| H | .076 | .330 |
| I | .220 | .300 |
| J | 1.02 | 1.53 |
| All Dimensions in millimeter | | |

OUTLINE DIMENSIONS

Fig. 13

D²PAK

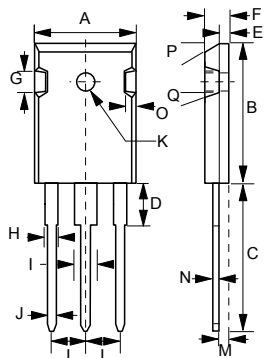


| D ² PAK | | |
|--------------------|-------|-------|
| DIM. | MIN. | MAX. |
| A | 9.65 | 10.69 |
| B | 14.60 | 15.88 |
| C | 8.25 | 9.25 |
| D | 1.14 | 1.40 |
| E | 0.51 | 1.14 |
| F | 2.29 | 2.79 |
| G | 2.29 | 2.79 |
| H | 2.03 | 2.92 |
| I | 1.14 | 1.40 |
| J | 0.30 | 0.64 |
| K | 4.37 | 4.83 |

All Dimensions in millimeter

Fig. 14

TO-3P

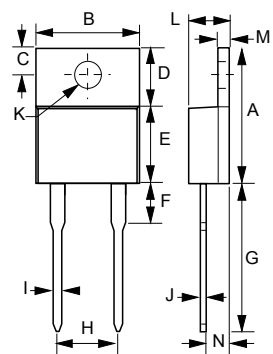


| TO-3P | | |
|-------|-------|-------|
| DIM. | MIN. | MAX. |
| A | 15.75 | 16.25 |
| B | 21.25 | 21.75 |
| C | 19.60 | 20.10 |
| D | 3.78 | 4.38 |
| E | 1.88 | 2.08 |
| F | 4.87 | 5.13 |
| G | - | 4.40 |
| H | 1.90 | 2.16 |
| I | 2.93 | 3.22 |
| J | 1.12 | 1.22 |
| K | 2.90 | 3.20 |
| L | 5.20 | 5.70 |
| M | 2.10 | 2.40 |
| N | 0.51 | 0.76 |
| O | 1.93 | 2.18 |
| P | - | 20° |
| Q | - | 10° |

All Dimensions in millimeter

Fig. 15

TO-220AC

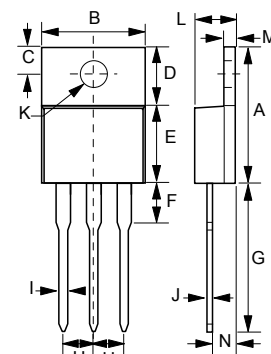


| TO-220AC | | |
|----------|-------|-------|
| DIM. | MIN. | MAX. |
| A | 14.22 | 15.88 |
| B | 9.65 | 10.67 |
| C | 2.54 | 3.43 |
| D | 5.84 | 6.86 |
| E | 8.26 | 9.28 |
| F | - | 6.35 |
| G | 12.70 | 14.73 |
| H | 4.83 | 5.33 |
| I | 0.51 | 1.14 |
| J | 0.30 | 0.64 |
| K | 3.53 | 4.09 |
| L | 3.56 | 4.83 |
| M | 1.14 | 1.40 |
| N | 2.03 | 2.92 |

All Dimensions in millimeter

Fig. 16

TO-220AB

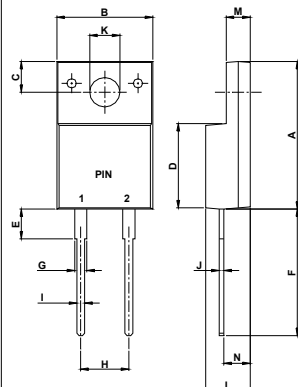


| TO-220AB | | |
|----------|-------|-------|
| DIM. | MIN. | MAX. |
| A | 14.22 | 15.88 |
| B | 9.65 | 10.67 |
| C | 2.54 | 3.43 |
| D | 5.84 | 6.86 |
| E | 8.26 | 9.28 |
| F | - | 6.35 |
| G | 12.70 | 14.73 |
| H | 2.29 | 2.79 |
| I | 0.51 | 1.14 |
| J | 0.30 | 0.64 |
| K | 3.53 | 4.09 |
| L | 3.56 | 4.83 |
| M | 1.14 | 1.40 |
| N | 2.03 | 2.92 |

All Dimensions in millimeter

Fig. 17

ITO-220AC

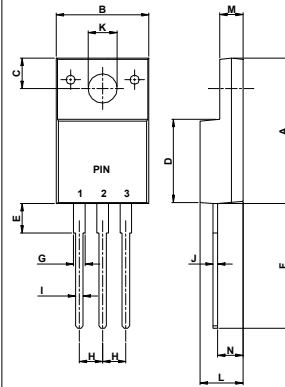


| ITO-220AB | | |
|-----------|-------|-------|
| DIM. | MIN. | MAX. |
| A | 15.50 | 16.50 |
| B | 10.0 | 10.40 |
| C | 3.00 | 3.50 |
| D | 9.00 | 9.30 |
| E | 2.90 | 3.60 |
| F | 13.46 | 14.22 |
| G | 1.15 | 1.70 |
| H | 4.83 | 5.33 |
| I | 0.75 | 1.00 |
| J | 0.45 | 0.70 |
| K | 3.00 | 3.30 |
| L | 4.36 | 4.77 |
| M | 2.48 | 2.80 |
| N | 2.50 | 2.80 |

All Dimensions in millimeter

Fig. 18

ITO-220AB



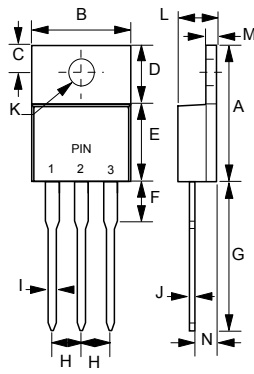
| ITO-220AB | | |
|-----------|-------|-------|
| DIM. | MIN. | MAX. |
| A | 15.50 | 16.50 |
| B | 10.0 | 10.40 |
| C | 3.00 | 3.50 |
| D | 9.00 | 9.30 |
| E | 2.90 | 3.60 |
| F | 13.46 | 14.22 |
| G | 1.15 | 1.70 |
| H | 2.40 | 2.70 |
| I | 0.75 | 1.00 |
| J | 0.45 | 0.70 |
| K | 3.00 | 3.30 |
| L | 4.36 | 4.77 |
| M | 2.48 | 2.80 |
| N | 2.50 | 2.80 |

All Dimensions in millimeter

OUTLINE DIMENSIONS

Fig. 19

TO-220AB



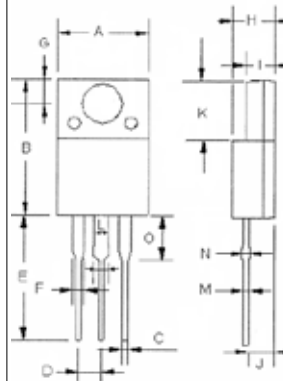
* Only for Thyristor Device
(Triac & SCR)

| TO-220AB | | |
|----------|--------------------|--------------------|
| DIM. | MIN. | MAX. |
| A | 14.22 | 15.88 |
| B | 9.65 | 10.67 |
| C | 2.54 | 3.43 |
| D | 5.84 | 6.86 |
| E | 8.26 | 9.28 |
| F | - | 6.35 |
| G | 12.70 | 14.73 |
| H | 2.29 | 2.79 |
| I | 0.51 | 1.14 |
| J | 0.40 | 0.67 |
| K | 3.53 \varnothing | 4.09 \varnothing |
| L | 3.56 | 4.83 |
| M | 1.14 | 1.40 |
| N | 2.03 | 2.92 |

All Dimensions in millimeter

Fig. 20

TO-220FP



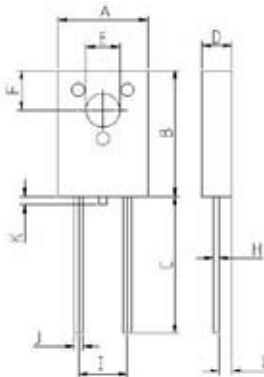
* Only for Thyristor Device
(Triac & SCR)

| TO-220FP | | |
|----------|--------------------|--------------------|
| DIM. | MIN. | MAX. |
| A | 9.95 | 10.10 |
| B | 15.00 | 15.30 |
| C | 0.55 | 0.70 |
| D | 2.35 | 2.73 |
| E | 13.35 | 13.55 |
| F | 1.11 | 1.45 |
| G | 2.60 | 2.83 |
| H | 4.49 | 4.50 |
| I | 3.10 | 3.25 |
| J | 2.60 | 2.80 |
| K | 6.80 | 7.10 |
| L | 1.48 | 1.66 |
| M | 0.60 | 0.68 |
| N | 0.62 | 0.78 |
| O | 3.60 | 3.90 |
| P | 3.00 \varnothing | 3.20 \varnothing |

All Dimensions in millimeter

Fig. 21

TO-126F

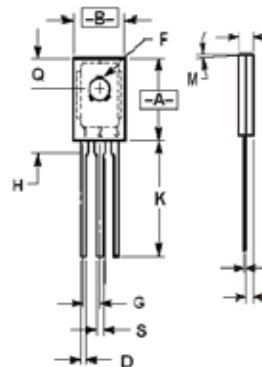


| TO-126F | | |
|---------|--------------------|--------------------|
| DIM. | MIN. | MAX. |
| A | 7.12 | 8.36 |
| B | 10.16 | 11.43 |
| C | 14.48 | 16.63 |
| D | 2.85 | 3.65 |
| E | 3.00 \varnothing | 3.30 \varnothing |
| F | 3.31 | 4.44 |
| G | 1.75 | 2.35 |
| H | 0.39 | 0.63 |
| I | 4.07 | 5.08 |
| J | 0.65 | 0.85 |
| K | ----- | 1.20 |

All Dimensions in millimeter

Fig. 22

TO-126

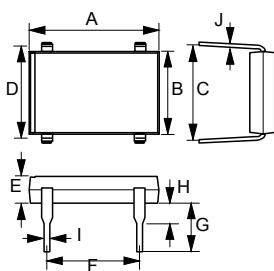


| TO-126 | | |
|--------|--------|-------|
| DIM. | MIN. | MAX. |
| A | 10.16 | 11.43 |
| B | 7.12 | 8.38 |
| C | 2.29 | 3.04 |
| D | 0.64 | 0.89 |
| F | 2.54 | 3.3 |
| G | 2.04 | 2.54 |
| H | - | 2.54 |
| J | 0.39 | 0.63 |
| K | 15.12 | 16.63 |
| M | 3" TYP | |
| Q | 3.31 | 4.44 |
| R | 0.89 | 1.65 |
| S | 0.64 | 0.88 |

All Dimensions in millimeter

Fig. 23

DF

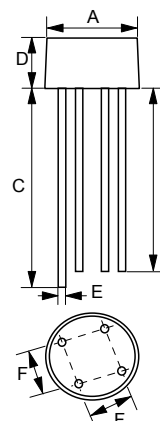


| DF | | |
|------|------|------|
| DIM. | MIN. | MAX. |
| A | 8.20 | 8.50 |
| B | 6.20 | 6.50 |
| C | 7.60 | 8.90 |
| D | 7.40 | 7.60 |
| E | 2.40 | 2.60 |
| F | 5.00 | 5.20 |
| G | 4.10 | 4.60 |
| H | 1.27 | 2.03 |
| I | 0.41 | 0.51 |
| J | 0.22 | 0.30 |

All Dimensions in millimeter

Fig. 24

WOG



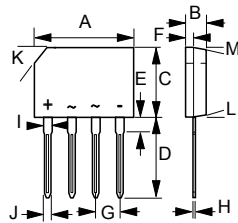
| WOG | | |
|------|------|------|
| DIM. | MIN. | MAX. |
| A | 8.84 | 9.86 |
| B | 25.4 | - |
| C | 27.9 | - |
| D | 4.00 | 4.60 |
| E | 0.71 | 0.81 |
| F | 4.60 | 5.60 |

All Dimensions in millimeter

OUTLINE DIMENSIONS

Fig. 25

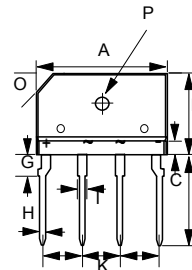
KBP



| KBP | | |
|------------------------------|-----------|-------|
| DIM. | MIN. | MAX. |
| A | 14.25 | 14.75 |
| B | 3.35 | 3.65 |
| C | 10.20 | 10.60 |
| D | 14.25 | 14.73 |
| E | 2.10 | 2.50 |
| F | 0.80 | 1.10 |
| G | 3.56 | 4.06 |
| H | 0.30 | 0.64 |
| I | 1.17 | 1.42 |
| J | 0.76 | 0.86 |
| K | 2.8 x 45° | |
| L | - | 2° |
| M | - | 3° |
| All Dimensions in millimeter | | |

Fig. 26

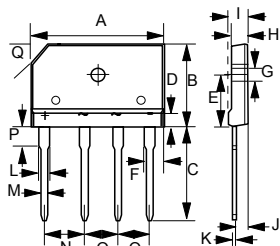
KBJ



| KBJ | | |
|------------------------------|-------------|-------------|
| DIM. | MIN. | MAX. |
| A | 24.80 | 25.20 |
| B | 14.70 | 15.30 |
| C | 3.90 | 4.10 |
| D | 4.40 | 4.80 |
| E | 3.40 | 3.80 |
| F | 3.10 ϕ | 3.40 ϕ |
| G | 3.30 | 3.70 |
| H | 0.90 | 1.10 |
| I | 1.50 | 1.90 |
| J | 17.2 | 17.80 |
| K | 7.30 | 7.70 |
| L | 2.50 | 2.90 |
| M | 0.60 | 0.80 |
| N | 9.30 | 9.70 |
| O | 3.0 x 45° | |
| F | 3.10 ϕ | 3.40 ϕ |
| All Dimensions in millimeter | | |

Fig. 27

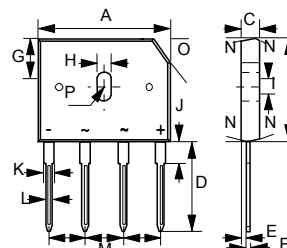
GBJ



| GBJ | | |
|------------------------------|--------------------|--------------------|
| DIM. | MIN. | MAX. |
| A | 29.70 | 30.30 |
| B | 19.70 | 20.30 |
| C | 17.00 | 18.00 |
| D | 4.70 | 4.90 |
| E | 10.80 | 11.20 |
| F | 2.30 | 2.70 |
| G | 3.10 \varnothing | 3.40 \varnothing |
| H | 3.40 | 3.80 |
| I | 4.40 | 4.80 |
| J | 2.50 | 2.90 |
| K | 0.60 | 0.70 |
| L | 2.00 | 2.40 |
| M | 0.90 | 1.10 |
| N | 9.80 | 10.20 |
| O | 7.30 | 7.70 |
| P | 3.80 | 4.20 |
| Q | (3.0) x 45° | |
| All Dimensions in millimeter | | |

Fig. 28

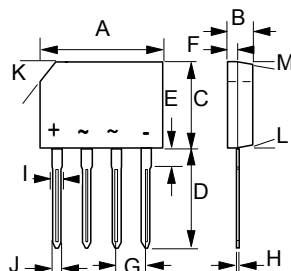
GBU



| GBU | | |
|------------------------------|--------------|-------|
| DIM. | MIN. | MAX. |
| A | 21.80 | 22.30 |
| B | 18.30 | 18.80 |
| C | 3.30 | 3.56 |
| D | 17.50 | 18.00 |
| E | 0.76 | 1.00 |
| F | 0.46 | 0.56 |
| G | 7.40 | 7.90 |
| H | 3.50 | 4.10 |
| I | 1.65 | 2.16 |
| J | 2.25 | 2.75 |
| K | 1.95 | 2.35 |
| L | 1.02 | 1.27 |
| M | 4.83 | 5.33 |
| N | 7.0° TYPICAL | |
| O | 3.2 x 45° | |
| P | 1.90 RADIUS | |
| All Dimensions in millimeter | | |

Fig. 29

GBL

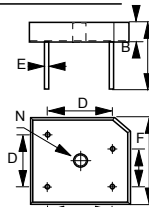


| GBL | | |
|------------------------------|-----------|-------|
| DIM. | MIN. | MAX. |
| A | 20.2 | 20.8 |
| B | 3.30 | 3.70 |
| C | 10.70 | 11.30 |
| D | 17.50 | 18.00 |
| E | 2.30 | 2.70 |
| F | 0.80 | 1.20 |
| G | 4.83 | 5.33 |
| H | 0.40 | 0.60 |
| I | 1.95 | 2.35 |
| J | 1.02 | 1.27 |
| K | 3.2 x 45° | |
| L | - | 5° |
| M | - | 5° |
| All Dimensions in millimeter | | |

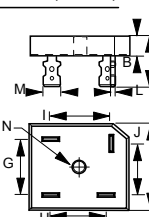
Fig. 30

GBPC

GBPC-W (Wire)



GBPC (Terminal)



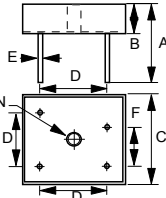
| GBPC/GBPC-W | | |
|------------------------------|-----------------------|-------|
| DIM. | MIN. | MAX. |
| A | 31.80 | - |
| B | 7.40 | 8.00 |
| C | 28.30 | 28.80 |
| D | 17.60 | 18.60 |
| E | 0.97 | 1.07 |
| F | 10.90 | 11.90 |
| G | 17.60 | 18.60 |
| H | 13.80 | 14.80 |
| I | 16.10 | 17.10 |
| J | 16.10 | 17.10 |
| K | 18.80 | 21.30 |
| L | 0.76 | 0.86 |
| M | 6.30 | 6.50 |
| N | HOLE FOR NO. 10 SCREW | |
| | 5.08 | 5.59 |
| All Dimensions in millimeter | | |

OUTLINE DIMENSIONS

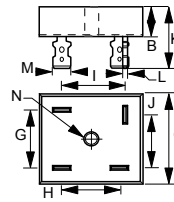
Fig. 31

KBPC-G

KBPC-GW (Wire)



KBPC-G (Terminal)

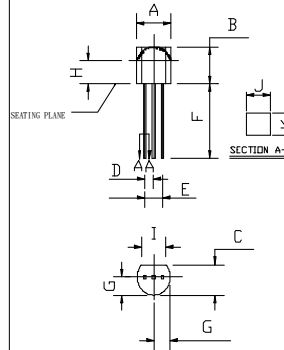


| KBPC-G / KBPC-GW | | |
|------------------|-----------------------|-------|
| DIM. | MIN. | MAX. |
| A | 31.80 | - |
| B | 7.90 | 8.40 |
| C | 28.30 | 28.80 |
| D | 17.60 | 18.60 |
| E | 0.97 | 1.07 |
| F | 10.90 | 11.90 |
| G | 17.60 | 18.60 |
| H | 13.80 | 14.80 |
| I | 16.10 | 17.10 |
| J | 16.10 | 17.10 |
| K | 18.80 | 21.30 |
| L | 0.76 | 0.86 |
| M | 6.30 | 6.50 |
| N | HOLE FOR NO. 10 SCREW | |
| | 5.08 | 5.59 |

All Dimensions in millimeter

Fig. 32

TO-92 (TO-226AA)

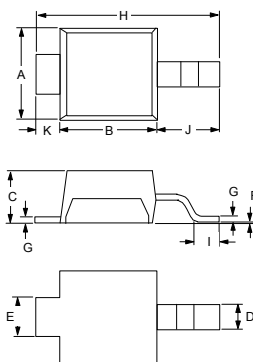


| TO-92 | | |
|-------|------|-------|
| DIM. | MIN. | MAX. |
| A | 4.45 | 4.70 |
| B | 4.32 | 5.33 |
| C | 3.18 | 4.19 |
| D | 1.15 | 1.39 |
| E | 2.42 | 2.66 |
| F | 12.7 | ----- |
| G | 2.04 | 2.66 |
| H | 2.93 | ----- |
| I | 3.43 | ----- |
| J | 0.40 | 0.50 |
| K | 0.35 | 0.45 |

All Dimensions in millimeter

Fig. 33

DO-216AA

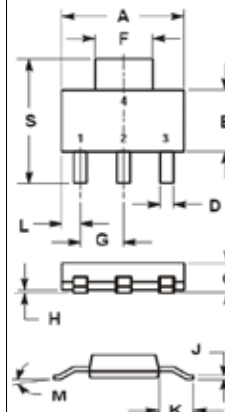


| DO216AA | | |
|---------|-------|-------|
| DIM. | MIN. | MAX. |
| A | 1.75 | 2.05 |
| B | 1.80 | 2.20 |
| C | 0.95 | 1.25 |
| D | 0.42 | 0.68 |
| E | 0.70 | 1.00 |
| F | -0.05 | +0.10 |
| G | 0.10 | 0.25 |
| H | 3.65 | 3.95 |
| I | 0.40 | 0.70 |
| J | 1.10 | 1.50 |
| K | 0.20 | 0.80 |

All Dimensions in millimeter

Fig. 34

SOT-223

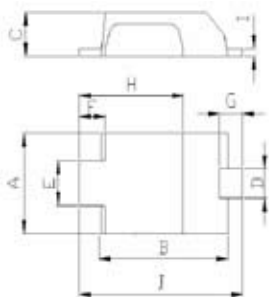


| SOT-223 | | |
|---------|------|------|
| DIM. | MIN. | MAX. |
| A | 6.30 | 6.70 |
| B | 3.30 | 3.70 |
| C | 1.50 | 1.75 |
| D | 0.60 | 0.89 |
| F | 2.90 | 3.20 |
| G | 2.20 | 2.40 |
| H | 0.02 | 0.10 |
| J | 0.24 | 0.35 |
| K | 1.50 | 2.00 |
| L | 0.85 | 1.05 |
| M | 0° | 10° |
| S | 6.70 | 7.30 |

All Dimensions in millimeter

Fig. 35

DO-222AA

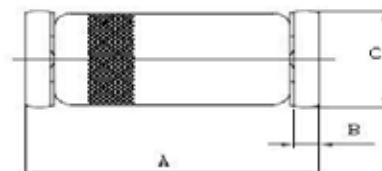


| DO-222AA | | |
|----------|------|------|
| DIM. | MIN. | MAX. |
| A | 1.75 | 2.05 |
| B | 2.80 | 3.10 |
| C | 0.80 | 0.95 |
| D | 0.40 | 0.65 |
| E | 0.70 | 1.00 |
| F | 0.45 | 0.75 |
| G | 0.50 | 0.80 |
| H | 2.10 | 2.60 |
| I | 0.10 | 0.25 |
| J | 3.60 | 3.90 |

All Dimensions in millimeter

Fig. 36

LL-34



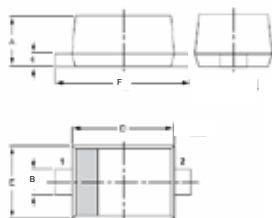
| LL-34 | | |
|-------|-------|-------|
| Dim. | Min. | Max. |
| A | φ 3.3 | φ 3.7 |
| B | --- | 0.6 |
| C | φ 1.4 | φ 1.6 |

All Dimensions in millimeter

OUTLINE DIMENSIONS

Fig. 37

SOD523



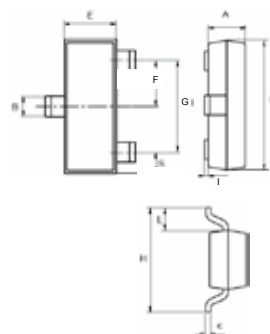
| SOD523 | | | |
|------------------------------|------|------|--|
| DIM. | MIN. | MAX. | |
| A | 0.58 | 0.65 | |
| B | 0.26 | 0.34 | |
| C | 0.11 | 0.17 | |
| D | 1.15 | 1.25 | |
| E | 0.75 | 0.85 | |
| F | 1.55 | 1.65 | |
| All Dimensions in millimeter | | | |

1 2

| PIN ASSIGNMENT | |
|----------------|---------|
| 1 | Cathode |
| 2 | Anode |

Fig. 38

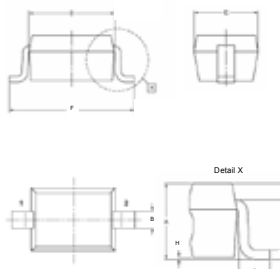
SOT23



| SOT23 | | | |
|------------------------------|----------|------|--|
| DIM. | MIN. | MAX. | |
| A | 0.89 | 1.40 | |
| B | 0.30 | 0.51 | |
| C | 0.085 | 0.18 | |
| D | 2.75 | 3.04 | |
| E | 1.20 | 1.60 | |
| F | 0.85 | 1.05 | |
| G | 1.70 | 2.10 | |
| H | 2.10 | 2.75 | |
| I | 0.0 | 0.1 | |
| L | 0.6 typ. | | |
| S | 0.35 | 0.65 | |
| All Dimensions in millimeter | | | |

Fig. 39

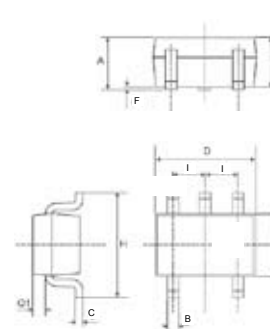
SOD323



| SOD323 | | | |
|------------------------------|------|------|--|
| DIM. | MIN. | MAX. | |
| A | 0.80 | 1.10 | |
| B | 0.25 | 0.40 | |
| C | 0.10 | 0.25 | |
| D | 1.60 | 1.80 | |
| E | 1.15 | 1.35 | |
| F | 2.30 | 2.70 | |
| G | 0.15 | 0.45 | |
| H | ---- | 0.05 | |
| I | 0.15 | 0.25 | |
| All Dimensions in millimeter | | | |

Fig. 40

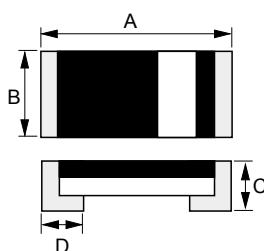
SOT353



| SOT353 | | | |
|------------------------------|-----------|------|--|
| DIM. | MIN. | MAX. | |
| A | 0.80 | 1.10 | |
| B | 0.15 | 0.30 | |
| C | 0.10 | 0.18 | |
| D | 1.80 | 2.20 | |
| E | 1.15 | 1.35 | |
| F | 0 | 0.1 | |
| G | 0.80 | 1.00 | |
| H | 1.80 | 2.40 | |
| I | 0.65 typ. | | |
| Q1 | 0.1 | 0.4 | |
| All Dimensions in millimeter | | | |

Fig. 41

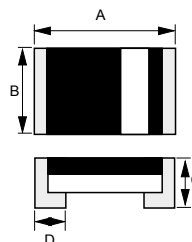
0603



| 0603 | | | |
|------------------------------|------|------|--|
| Dim. | Min. | Max. | |
| A | 1.45 | 1.65 | |
| B | 0.70 | 0.90 | |
| C | 0.55 | 0.75 | |
| D | 0.25 | 0.45 | |
| All Dimensions in millimeter | | | |

Fig. 42

0805

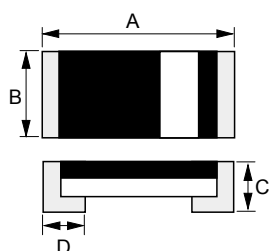


| 0805 | | | |
|------------------------------|------|------|--|
| Dim. | Min. | Max. | |
| A | 1.80 | 2.20 | |
| B | 1.05 | 1.45 | |
| C | 0.75 | 0.95 | |
| D | 0.25 | 0.65 | |
| All Dimensions in millimeter | | | |

OUTLINE DIMENSIONS

Fig. 43

1206

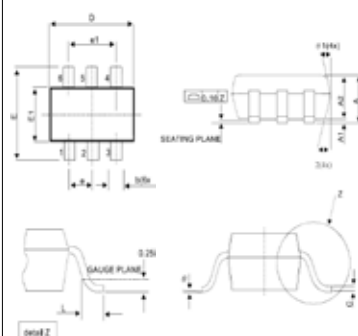


| 1206 | | |
|------|------|------|
| Dim. | Min. | Max. |
| A | 3.00 | 3.40 |
| B | 1.30 | 1.70 |
| C | 0.75 | 0.95 |
| D | 0.35 | 0.75 |

All Dimensions in millimeter

Fig. 44

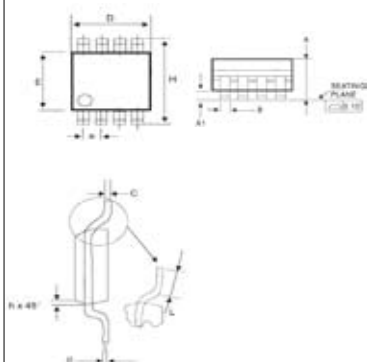
TSOP-6



| SYMBOL | MILLIMETERS | |
|--------|-------------|------|
| | MIN | MAX |
| A | 1.50 | 1.30 |
| A1 | 0.25 | 0.15 |
| A2 | 1.50 | 1.20 |
| B | 0.35 | 0.45 |
| C | 0.10 | 0.20 |
| D | 2.80 | 3.00 |
| E | 1.50 | 1.70 |
| H | 0.90 | 1.00 |
| L | 1.90 BSC | |
| L | 0.25 | 0.55 |
| Ø | Ø | Ø |
| Ø1 | 5 | 7 |
| Ø2 | 5 | 10 |

Fig. 45

SOP-8



| DIM | MILLIMETERS | |
|-----|-------------|------|
| | MIN | MAX |
| A | 1.35 | 1.75 |
| A1 | 0.10 | 0.25 |
| B | 0.35 | 0.49 |
| C | 0.18 | 0.25 |
| D | 4.80 | 5.00 |
| E | 3.80 | 4.00 |
| e | 1.27 BSC | |
| H | 5.80 | 6.20 |
| h | 0.25 | 0.50 |
| L | 0.60 | 1.25 |
| Ø | Ø | Ø |

SURFACE MOUNT PACKAGING

Packed per EIA/JEDEC standard RS-481
8, 12, 16, 24mm Tape only

Embossed Carrier
Dimensions

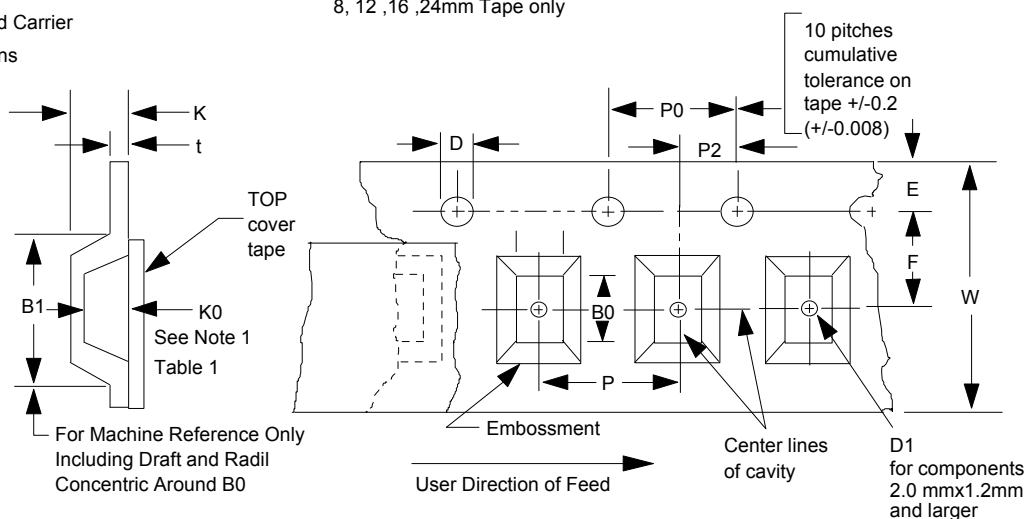


TABLE 1

EMBOSSD TAPE

ALL DIMENSION IN MILLIMETERS AND (INCHES)

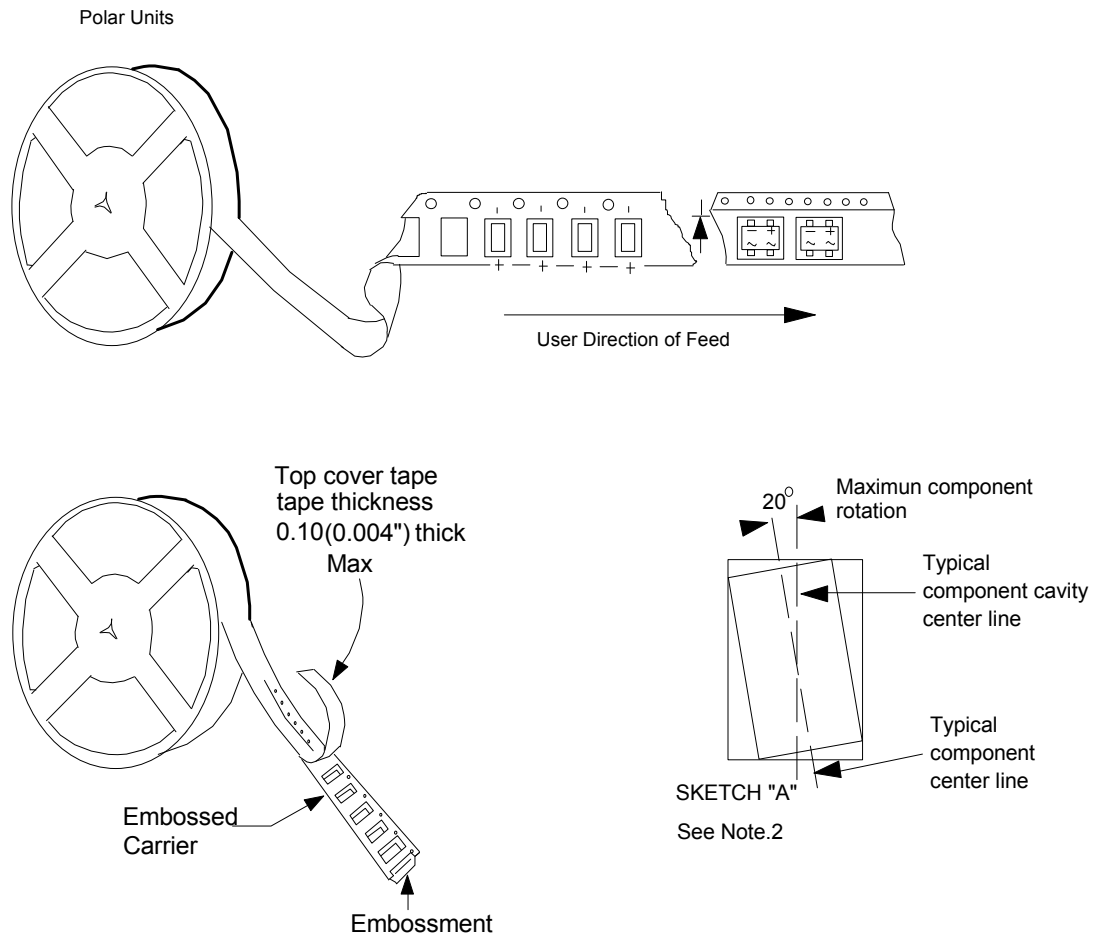
| TAPE SIZE | D | E | P0 | t (MAX) | A0B0K0 | CONSTANT DIMENSION |
|--------------------------------|--|---|--|----------------|------------|-----------------------|
| 8mm 12 mm 16 mm 24 mm | 1.55 ^{+0.10} _{-0.0} (0.059 ^{+0.004} _{-0.00}) | 1.75 ^{+/-0.10} (0.069 ^{+/-0.004}) | 4.0 ^{+/-0.10} (0.157 ^{+/-0.004}) | 0.4 (0.016) | SEE NOTE 1 | |

| PRODUCT TYPE | TAPE SIZE | B1 MAX | D1 MIN | F | K MAX | P2 | R | W | P | VARIABLE DIMENSIONS |
|---|-----------|----------------|-------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|--|---------------------|
| SOT-23 SOT-353 SOD-323 SOD-523 | 8mm | 4.5 (.177) | 1.0 (.039) | 3.5+/-0.05 (.138+/-0.002) | 2.4 (.256) | 2.0+/-0.05 (.079+/-0.002) | 25 (0.984) | 8.0+/-0.30 (.315+/-0.012) | 4.0+/-0.10 (.157+/-0.004) 2.0+/-0.05 (.079+/-0.002) | |
| DO-216AA | 12mm | 5.3 (.212) | 1.5 (.059) | 5.5+/-0.05 (.217+/-0.002) | 1.37 (.054) | 2.0+/-0.05 (.079+/-0.002) | 50 (1.969) | 12.0+/-0.30 (.472+/-0.012) | 4.0+/-0.10 (.157+/-0.004) | |
| SMA | | 8.2 (.323) | | | 4.5 (.177) | | 30 (1.181) | | 8.0+/-0.10 (.315+/-0.004) | |
| SMB | | | | | | | | | | |
| HDDF | | | | | | | | | | |
| SOT-223 | | | | | | | | | | |
| SMC | 16mm | 12.1 (.476) | | 7.5+/-0.10 (.295+/-0.004) | 3.29 (.129) | 2.0+/-0.1 (.079+/-0.004) | 40 (1.575) | 16.0+/-0.30 (.630+/-0.012) | 8.0+/-0.1 (.314+/-0.004) | |
| DF-S | | | 3.7 (.146) | | 2.0+/-0.1 (.079+/-0.004) | 12.0+/-0.10 (.472+/-0.004) | | | | |
| D2PAK | 24mm | 20.1 (.791) | 11.5+/-0.10 (.453+/-0.004) | 6.5 (.256) | 2.0+/-0.10 (.079+/-0.004) | 50 (1.969) | 24.0+/-0.30 (.945+/-0.012) | 16.0+/-0.10 (.787+/-0.004) | | |

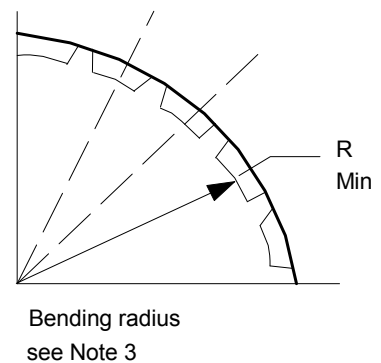
Note:1

A0B0K0 are determined by component size. The clearance between the component and the cavity must be within 0.05(.002) min. to 0.50 (.020) max. for 8 mm tape. 0.05(.002) min. to 0.65 (.025) max. for 12mm tape. 0.15 (0.006) min. to 0.90 (.035) max. for 16mm tape and 0.05(0.002)min. to 1.00 (.039) max. for 24 mm tape and larger.

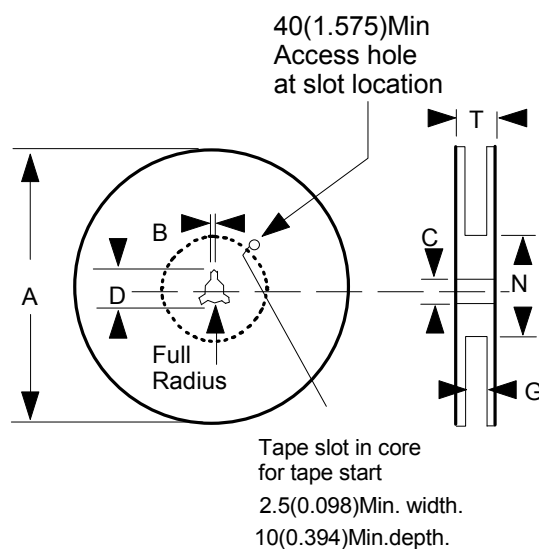
SURFACE MOUNT PACKAGING



2. The component cannot rotate more than 20° within the determined cavity, see sketch "A" below
3. Tape and component shall pass around radius "R" without damage .



SURFACE MOUNT PACKAGING



REEL DIMENSIONS

| TAPE SIZE | A MAX. | B MAX. | C | D MIN | N MIN | G | T MAX. |
|-----------|---------------|--------------|------------------------------|---------------|---------------|------------------------------------|-----------------|
| 8mm | 178 (7.0) | 1.5 (.06) | 13.0+/-0.5 (.512+/-0.020) | 20.2 (.80) | 75 (2.952) | 8.4+1.5/-0.0 (.33+0.06/-0.0) | 14.4 (0.566) |
| 12mm | 330 (13.0) | | | | | 12.4+2.0/-0.0 (.488+0.078/-0.0) | 18.4 (.724) |
| 16mm | | | | | | 16.4+2.0/-0.0 (.646+0.078/-0.0) | 22.4 (.882) |
| 24mm | | | | | | 24.4+2.0/-0.0 (.960+0.078/-0.0) | 30.4 (1.196) |

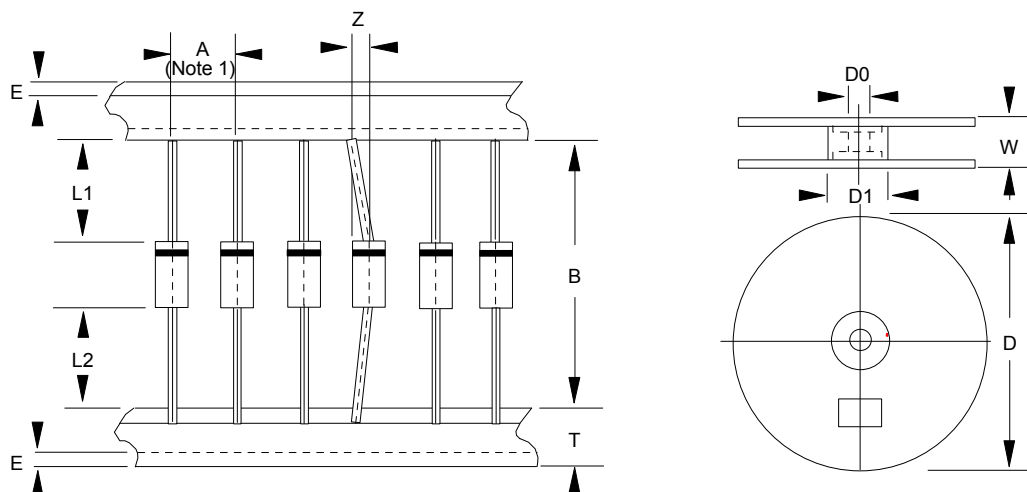
PACKING

| DEVICE TYPE | Q'TY/REEL (PCS) | REEL DIA. (mm) | BOX SIZE (mm) | Q'TY/BOX (PCS) | CARTON SIZE (mm) | Q'TY/CARTON (PCS) |
|---|--------------------|-------------------|------------------|-------------------|---------------------|----------------------|
| DO-216AA | 12000 | 330 | 340x338x30 | 12000 | 350x350x340 | 144000 |
| SMA | 5000 | | 334x334x21 | 5000 | | 60000 |
| SMB | 3000 | | | 3000 | | 36000 |
| HDDF | | | | | | |
| SMC | | | 337x337x27 | 1500 | | |
| DF-S | 1500 | | 338x338x26 | 800 | | 6400 |
| D2PAK | 800 | | | 353x347x50 | 5000 | 360x360x315 |
| SOT-223 | 2500 | | 178 | 206x207x203 | 45000 | 438x438x241 |
| SOT-23 SOT-353 SOD-523 SOD-323 | 3000 | | | | | |

REEL PACKAGING

Axial devices are packed in accordance with EIA standard RS-296-D and specification.

| COMPONENT OUTLINE | COMPONENT PITCH A +/- 0.5mm (.020") | INNER TAPE PITCH B +/- 1.5mm (.059") | CUMULATIVE PITCH TOLERANCE | Q'TY per REEL | Q'TY per CARTON |
|----------------------|---|--|----------------------------------|------------------|--------------------|
| T-1 | 5.0mm | 52.4mm | 2.0mm/10pitch | 5000 | 20 K |
| A-405 | 5.0mm | 26.0mm | 2.0mm/20pitch | 5000 | 20 K |
| A-405 | 5.0mm | 52.4mm | 2.0mm/10pitch | 5000 | 20 K |
| DO-41 | 5.0mm | 26.0mm | 2.0mm/20pitch | 5000 | 20 K |
| DO-41 | 5.0mm | 52.4mm | 2.0mm/10pitch | 5000 | 20 K |
| DO-15 | 5.0mm | 26.0mm | 2.0mm/10pitch | 4000 | 16 K |
| DO-15 | 5.0mm | 52.4mm | 2.0mm/10pitch | 4000 | 16 K |
| DO-201AD | 10.0mm | 52.4mm | 2.0mm/10pitch | 1200 | 4.8 K |
| R-6 | 10.0mm | 52.4mm | 2.0mm/10pitch | 700 | 2.8 K |

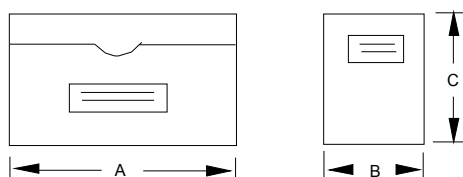


| ITEM | SYMBOL | SPECIFICATIONS (mm) | SPECIFICATIONS (inch) |
|-----------------------|--------|---------------------|-----------------------|
| Component alignment | Z | 1.2 max. | 0.048 max. |
| Tape width | T | 6.0+/-0.4 | 0.236+/-0.016 |
| Exposed adhesive | E | 0.8 max. | 0.032 max. |
| Body eccentricity | L1-L2 | 1.0 max. | 0.040 max. |
| Reel outside diameter | D | 330.0 | 13.0 |
| Reel inner diameter | D1 | 85.7+/-0.3 | 3.375+/-0.012 |
| Feed hole diameter | D0 | 16.6+/-0.4 | 0.655+/-0.016 |
| Reel width (Note 2) | W | 79.0+/-1.0 | 3.110+/-0.040 |

NOTE: 1. Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126").

2. The reel width 'W' for 26 mm taping is 50.0 +/- 1.0 mm (1.97" +/- 0.040")

AMMO BOX PACKAGING



BOX SIZE

Unit: m.m.

| Packaging | Products Outline | Dimension "A" | Dimension "B" | Dimension "C" | Q'TY per BOX |
|---------------------------|--------------------------|---------------|---------------|---------------|--------------|
| 26MM Horizontal Ammo Pack | T-1,A-405,DO-41 DO-15 | 255~259 | 50~54 | 107~113 | 3K 2K |
| 52MM Horizontal Ammo Pack | DO-15 | 259 | 83 | 113 | 2K |
| | T-1,A-405,DO-41 | | | | 3K |
| | DO-201,DO-201AD | | | | 1K |

CARTON SIZE

Unit: m.m.

| Packaging | Products Outline | Dimension Length | Dimension Width | Dimension Height | Q'TY per Carton |
|---------------------------|------------------|------------------|-----------------|------------------|-----------------|
| 26MM Horizontal Ammo Pack | T-1,A-405,DO-41 | 530 | 300 | 280 | 54K |
| | DO-15 | 530 | 300 | 280 | 36K |
| 52MM Horizontal Ammo Pack | DO-15 | 545 | 300 | 280 | 24K |
| | T-1,A-405,DO-41 | | | | 36K |
| | DO-201,DO-201AD | | | | 12K |

BULK PACKAGING

BOX:

| DEVICE TYPE | PACKAGING SIZE (m.m.) | | QUANTITY (EA) | | APPROX GROSS WEIGHT(KG) | |
|-----------------|-----------------------|-------------|---------------|--------|-------------------------|--------|
| | BOX | CARTON | BOX | CARTON | BOX | CARTON |
| A-405 | 196x84x20 | 450x210x250 | 1000 | 50K | 0.29 | 15.8 |
| DO-41 | 196x84x20 | 450x210x250 | 1000 | 50K | 0.38 | 20 |
| DO-15 | 196x84x20 | 450x210x250 | 800 | 40K | 0.38 | 20 |
| DO-201/DO-201AD | 305x93x59 | 395x315x340 | 1000 | 20K | 1.2 | 25 |
| R-6 | 305x93x59 | 395x315x340 | 500 | 10K | 1.15 | 23.6 |
| WOG | ----- | ----- | 1000 | 10K | 1.6 | 18 |

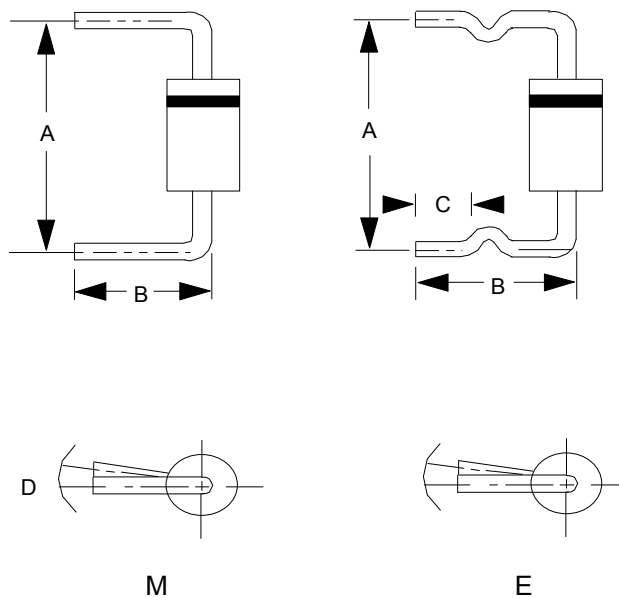
TUBE:

| DEVICE TYPE | PACKAGING SIZE (m.m.) | | | QUANTITY (EA) | | | APPROX GROSS WEIGHT(KG) | | |
|-------------|-----------------------|-------------|-------------|---------------|------|--------|-------------------------|-----|--------|
| | TUBE | BOX | CARTON | TUBE | BOX | CARTON | TUBE | BOX | CARTON |
| DF | 444x15x13.3 | 490x155x145 | 510x330x275 | 50 | 4000 | 16K | 0.04 | 3.5 | 14 |
| TO-220 | 537x34x 6.0 | 555x165x95 | 575x179x225 | 50 | 2000 | 4K | 0.14 | 5.8 | 14.9 |
| TO-3P | 502x46x 8.0 | 550x150x125 | 575x180x275 | 30 | 840 | 1.68K | 0.24 | 7.1 | 15.1 |
| DF-S | 444x15x5.9 | 490x155x145 | 350x350x340 | 50 | 4000 | 16K | 0.03 | 6.8 | 14 |
| KBJ | 525x37.3x7.1 | 550x200x110 | 580x230x270 | 20 | 1000 | 2K | 0.16 | 7.4 | 15 |
| KBP | 531x29.6x6.2 | 550x200x122 | 580x230x270 | 35 | 2800 | 5.6K | 0.09 | 7.3 | 15.4 |
| GBU | 465x41.5x6.2 | 500x200x120 | 520x210x265 | 20 | 1000 | 2K | 0.132 | 6.6 | 14.2 |
| GBJ | 475x42.5x7.2 | 500x200x120 | 520x210x265 | 15 | 600 | 1.2K | 0.16 | 7.5 | 17 |

TRAY:

| DEVICE TYPE | PACKAGING SIZE (m.m.) | | QUANTITY (EA) | | APPROX GROSS WEIGHT(KG) | |
|-------------|-----------------------|-------------|---------------|--------|-------------------------|--------|
| | TRAY | CARTON | TRAY | CARTON | TRAY | CARTON |
| KBPC-G | 320x280x30 | 330x290x210 | 100 | 0.5K | 2.4 | 13 |
| KBPC-GW | 320x280x30 | 330x290x210 | 100 | 0.5K | 2.1 | 11.5 |
| GBPC | 320x280x30 | 330x290x210 | 100 | 0.5K | 1.98 | 11 |
| GBPC-W | 320x280x30 | 330x290x210 | 100 | 0.5K | 1.70 | 9.5 |

PREFORMED LEAD DRAWING

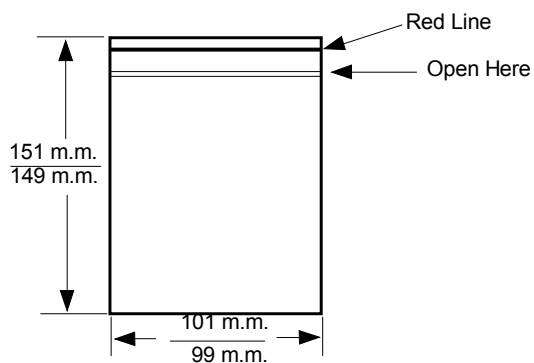


| Case type | Preformed type | A (mm) | | B (mm) | | C (mm) | | D (mm) | | R (mm) | |
|-----------|----------------|-----------|-----------|-----------|-----------|---------|-----------|--------|-----------|--------|-----------|
| | | Range | Tolerance | Range | Tolerance | Range | Tolerance | Range | Tolerance | Range | Tolerance |
| DO-41 | M | 11.0-20.0 | +/-0.5 | 8.0-20.0 | +/-0.5 | ---- | ---- | 1.5 | max | ---- | ---- |
| A-405 | E | 11.0-20.0 | +/-0.5 | 11.0-16.0 | +/-1.0 | 4.0-5.0 | +/-0.5 | 1.5 | max | ---- | ---- |
| DO-15 | M | 13.0-20.0 | +/-0.5 | 8.0-22.0 | +/-0.5 | ---- | ---- | 1.5 | max | ---- | ---- |
| | E | 13.0-20.0 | +/-0.5 | 11.0-16.0 | +/-1.0 | 4.0-5.0 | +/-0.5 | 1.5 | max | ---- | ---- |
| DO-201 | M | 15.0-20.0 | +/-1.0 | 8.0-22.0 | +/-1.0 | ---- | ---- | 2.0 | max | ---- | ---- |
| DO-201AD | E | 15.0-20.0 | +/-1.0 | 10.0-22.0 | +/-1.0 | 3.0-5.0 | +/-0.5 | 2.0 | max | ---- | ---- |
| R-6 | M | 15.0-20.0 | +/-1.0 | 8.0-22.0 | +/-1.0 | ---- | ---- | 2.0 | max | ---- | ---- |

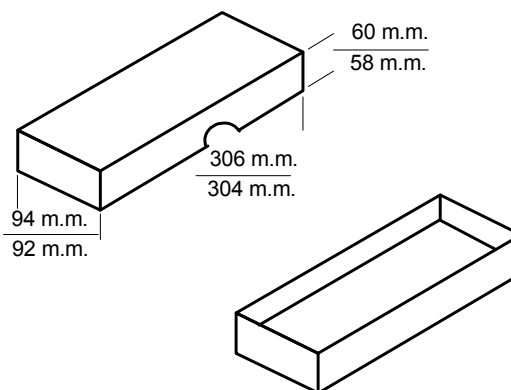
● Press Forming Also Available

PACKAGE OF PREFORMED DIODE

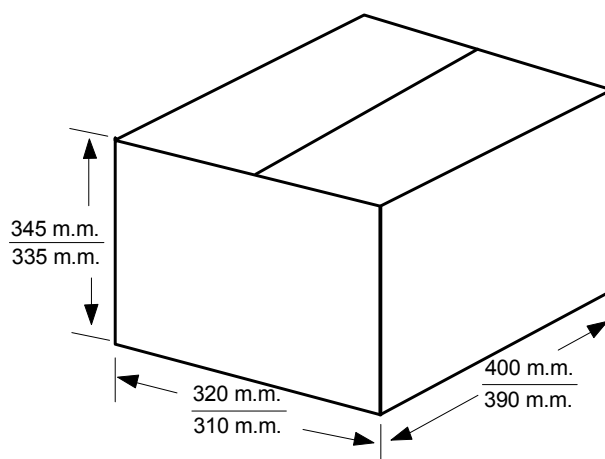
A. PLASTIC BAG



B. BOX



C. CARTON



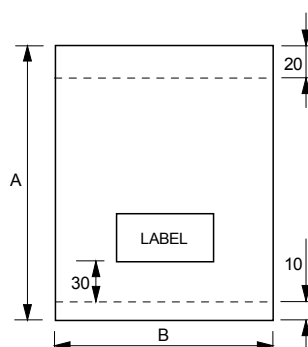
| Case Type | Preformed Type | | Q'TY/Plastic Bag | Q'TY/Box | Q'TY/Carton |
|--------------------|----------------|------------|------------------|----------|-------------|
| DO-41 DO-41L | M | Short Type | 400 | 2.4K | 40K |
| | | Long Type | 250 | 1.25K | 25K |
| | E | | 500 | 2.5K | 50K |
| | B | | 250 | 1.25K | 25K |
| DO-15 | C | | 500 | 2.5K | 50K |
| | M | | 400 | 2K | 40K |
| | E | | 400 | 2K | 40K |
| DO-201 DO-201AD | M | | 100 | 500 | 10K |
| | E | | 100 | 500 | 10K |
| R-6 | M | | 40 | 200 | 4.8K |

* Preformed Type see front page.

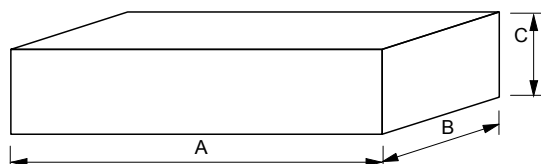
(Unit : PCS)

PACKAGE OF TO-92 SERIES

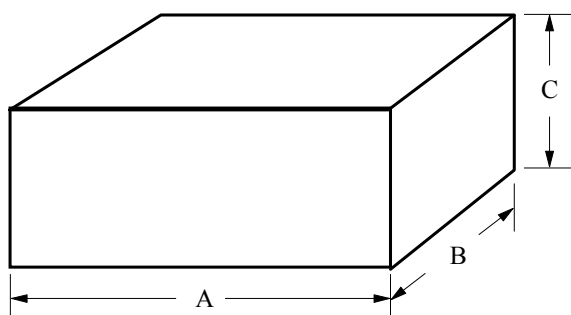
1. Plastic Bag



2. Inner Box



3. Carton



BULK PACKAGING

Unit: mm

| P/N | DIMENSION "A" | DIMENSION "B" | DIMENSION "C" | Q'TY PER | REMARK |
|----------------|------------------|------------------|------------------|----------|--------------|
| PLASTIC BAG | 185 | 125 | | 1K | |
| INNER BOX | 242 | 170 | 100 | 10K | 10 BAG |
| CARTON | 520 | 360 | 270 | 100K | 10 INNER BOX |

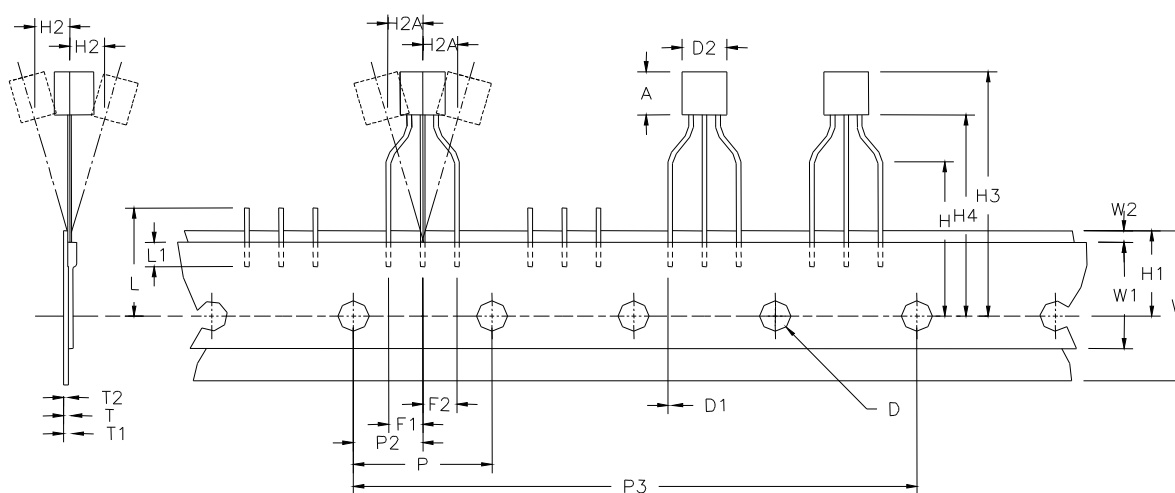
TAPPING PACKAGING

| P/N | DIMENSION "A" | DIMENSION "B" | DIMENSION "C" | Q'TY PER | REMARK |
|-----------|------------------|------------------|------------------|----------|--------------|
| INNER BOX | 330 | 200 | 41 | 2K | 1 PACK |
| CARTON | 430 | 360 | 280 | 20K | 10 INNER BOX |

PACKAGE OF TO-92 SERIES

Tape reel packing :

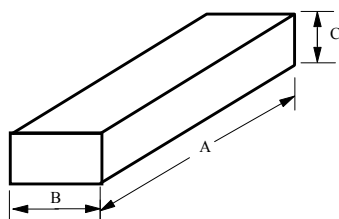
2. INNER BOX



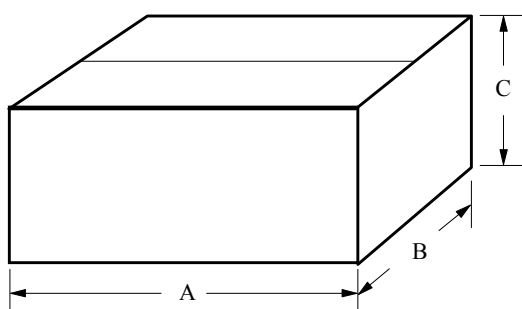
| SYMBOL | ITEM | Metric system | Dimensions in inch |
|--------|-------------------------------|---------------|--------------------|
| A | Body height | 4.4-4.8 | 0.173-0.189 |
| D | Sprocket hole diameter | 4.0±0.2 | 0.158±0.008 |
| D1 | Lead-wire diameter | 0.45-0.55 | 0.018-0.022 |
| D2 | Body diameter | 4.4-4.8 | 0.173-0.189 |
| F1.F2 | Compoment lead spacing | 2.5+0.4. -0.1 | 0.1+0.015. -0.004 |
| H | Lead wire clinch height | 16±0.5 | 0.63±0.02 |
| H1 | Sprocket hole position | 9±0.5 | 0.354±0.02 |
| H2 | Body shift | 1MAX | 0.04MAX |
| H3 | Overall height above abscissa | 32.0MAX | 1.26MAX |
| H4 | Height of component from tape | 21.0MAX | 0.827MAX |
| P | Sprocket hole pitch | 12.7±0.2 | 0.5±0.008 |
| P2 | Sprocket hole center to lead | 6.35±0.4 | 0.25±0.018 |
| P3 | 4 Sprocket holes pitch | 50.8±0.5 | 2.0±0.02 |
| T | Total tape thickness | 0.55MAX | 0.022MAX |
| W | Total tape width | 17.5-19 | 0.689-0.748 |
| W1 | Carrier tape width | 5.0-7.0 | 0.197-0.276 |
| W2 | Sprocket hole position | 0.5MAX | 0.02MAX |
| — | 20 Sprocket holes pitch | 254.0±1 | 10±0.04 |

PACKAGE OF TO-220 (SCR/TRIAC/MOSFET)

1. INNER BOX



2. CARTON



Unit: mm

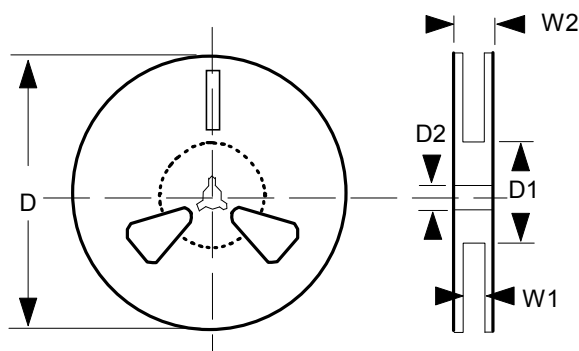
| P/N | DIMENSION "A" | DIMENSION "B" | DIMENSION "C" | Q'TY PER | REMARK |
|-----------|------------------|------------------|------------------|----------|--------------------|
| TUBE | 537 | 34 | 6 | 50 | |
| INNER BOX | 575 | 150 | 50 | 1K | 20 TUBE / 5 FLOORS |
| CARTON | 595 | 270 | 170 | 5K | 5 INNER BOX |

PACKAGE OF TO-3P (MOSFET)

Unit: mm

| P/N | DIMENSION "A" | DIMENSION "B" | DIMENSION "C" | Q'TY PER | REMARK |
|-----------|------------------|------------------|------------------|----------|--------------|
| TUBE | 507 | 48 | 8 | 30 | |
| INNER BOX | 555 | 160 | 130 | 840 | 28TUBES |
| CARTON | 565 | 170 | 270 | 1680 | 2 INNER BOXS |

SWITCHING DIODE REEL PACKAGING



Reel Dimension

Unit: mm (inch)

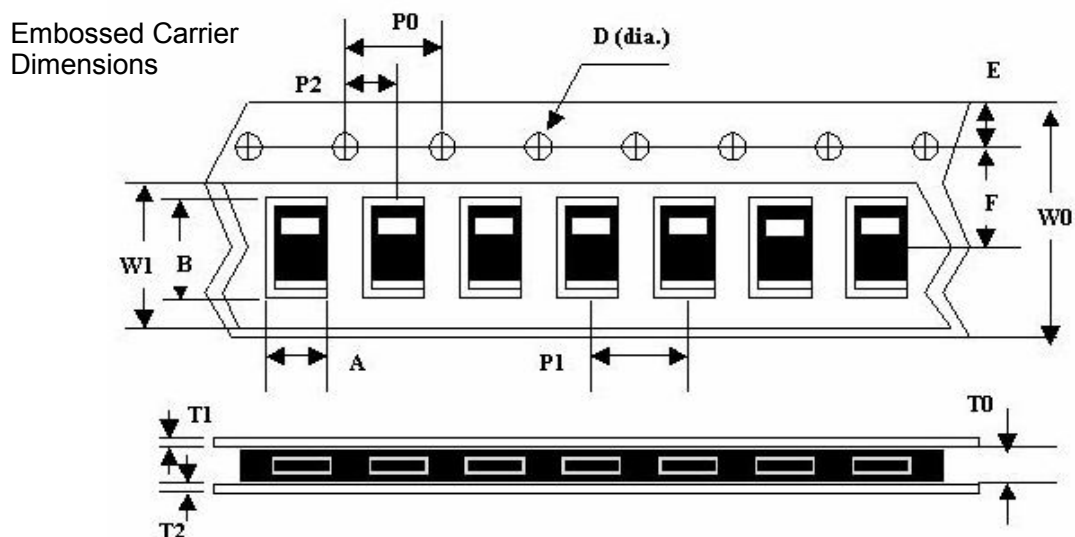
| Item | Symbol | Dimension |
|-----------------------|--------|-----------------------------|
| Feed hold diameter | D2 | 13.0+/-0.2 (0.512+/-0.008) |
| Reel inner diameter | D1 | 60.0+/-0.5 (2.36+/-0.02) |
| Reel outside diameter | D | 178.0+/-1.0 (7.008+/-0.04) |
| Reel inner width | W1 | 9.0+/-0.5 (0.354+/-0.02) |
| Reel outside width | W2 | 12.0+/-0.15 (0.472+/-0.006) |

PACKING

Unit: mm

| DEVICE TYPE | Q'TY/REEL (PCS) | REEL DIA. (mm) | BOX SIZE (mm) | Q'TY/BOX (PCS) | CARTON SIZE (mm) | Q'TY/CARTON (PCS) |
|-------------|-----------------|----------------|---------------|----------------|------------------|-------------------|
| 1206 | 5000 | 178 | 181x181x74 | 30000 | 393x367x189 | 300000 |
| 0805 | | | | | | |
| 0603 | | | | | | |

SWITCHING DIODE REEL PACKAGING



EMBOSSSED TAPE

Unit: mm

| Item | | Symbol | Dimension |
|----------------------------|------|--------|---------------------------------|
| Punch hole idth | 1206 | A | 2.00+/-0.2 (0.079+/-0.008) |
| | 805 | | 1.65+/-0.2 (0.065+/-0.008) |
| | 603 | | 1.20+/-0.2 (0.047+/-0.008) |
| Punch hole length | 1206 | B | 3.50+/-0.2 (0.138+/-0.008) |
| | 805 | | 2.40+/-0.2 (0.094+/-0.008) |
| | 603 | | 1.90+/-0.2 (0.075+/-0.008) |
| Sprocket hole | | D | 1.60+/-0.05 (0.063+/-0.002) |
| Sprocket hole position | | E | 1.75+/-0.10 (0.070+/-0.004) |
| Punch hole position | | F | 3.50+/-0.05 (0.140+/-0.002) |
| Sprocket hole pitch | | P0 | 4.00+/-0.10 (0.160+/-0.004) |
| Punch hole pitch | | P1 | 4.00+/-0.10 (0.160+/-0.004) |
| Punch hole center | | P2 | 2.00+/-0.05 (0.08+/-0.002) |
| Base tape width | | W0 | 8.00+/-0.20 (0.320+/-0.008) |
| Top/Bottom seal tape width | | W1 | 5.25+/-0.05 (0.210+/-0.002) |
| Base tape thickness | | T0 | 0.95+/-0.02 (0.038+/-0.008) |
| Top seal tape thickness | | T1 | 0.0054+/-0.005 (0.002+/-0.0002) |
| Bottom seal tape thickness | | T2 | 0.042+/-0.05 (0.0016+/-0.0002) |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
| 1.5CE10 | 1.5KE10A | 1.5CE350A | 1.5KE350A | 1.5KA6.8A | 1.5KE6.8A | 1.5KE300A | 1.5KE300A |
| 1.5CE100 | 1.5KE100A | 1.5CE350C | 1.5KE350CA | 1.5KA7.5 | 1.5KE7.5A | 1.5KE300C | 1.5KE300C |
| 1.5CE100A | 1.5KE100A | 1.5CE350CA | 1.5KE350CA | 1.5KA7.5A | 1.5KE7.5A | 1.5KE300C | 1.5KE300C |
| 1.5CE100C | 1.5KE100CA | 1.5CE36 | 1.5KE36A | 1.5KA8.2 | 1.5KE8.2A | 1.5KE300CA | 1.5KE300CA |
| 1.5CE100CA | 1.5KE100CA | 1.5CE36A | 1.5KE36A | 1.5KA8.2A | 1.5KE8.2A | 1.5KE30A | 1.5KE30A |
| 1.5CE10A | 1.5KE10A | 1.5CE36C | 1.5KE36CA | 1.5KA9.1 | 1.5KE9.1A | 1.5KE30C | 1.5KE30CA |
| 1.5CE10C | 1.5KE10CA | 1.5CE36CA | 1.5KE36CA | 1.5KA9.1A | 1.5KE9.1A | 1.5KE30CA | 1.5KE30CA |
| 1.5CE10CA | 1.5KE10CA | 1.5CE39 | 1.5KE39A | 1.5KE10 | 1.5KE10A | 1.5KE33 | 1.5KE33A |
| 1.5CE11 | 1.5KE11A | 1.5CE39A | 1.5KE39A | 1.5KE100 | 1.5KE100A | 1.5KE33A | 1.5KE33A |
| 1.5CE110 | 1.5KE110A | 1.5CE39C | 1.5KE39CA | 1.5KE100A | 1.5KE100A | 1.5KE33C | 1.5KE33CA |
| 1.5CE110A | 1.5KE110A | 1.5CE39CA | 1.5KE39CA | 1.5KE100C | 1.5KE100CA | 1.5KE33CA | 1.5KE33CA |
| 1.5CE110C | 1.5KE110CA | 1.5CE400 | 1.5KE400A | 1.5KE100CA | 1.5KE100CA | 1.5KE350 | 1.5KE350A |
| 1.5CE110CA | 1.5KE110CA | 1.5CE400A | 1.5KE400A | 1.5KE10A | 1.5KE10A | 1.5KE350A | 1.5KE350A |
| 1.5CE11A | 1.5KE11A | 1.5CE400C | 1.5KE400CA | 1.5KE10C | 1.5KE10CA | 1.5KE350C | 1.5KE350CA |
| 1.5CE11C | 1.5KE11CA | 1.5CE400CA | 1.5KE400CA | 1.5KE10CA | 1.5KE10CA | 1.5KE350CA | 1.5KE350CA |
| 1.5CE11CA | 1.5KE11CA | 1.5CE43 | 1.5KE43A | 1.5KE11 | 1.5KE11A | 1.5KE36 | 1.5KE36A |
| 1.5CE12 | 1.5KE12A | 1.5CE43A | 1.5KE43A | 1.5KE110 | 1.5KE110A | 1.5KE36A | 1.5KE36A |
| 1.5CE120 | 1.5KE120A | 1.5CE43C | 1.5KE43CA | 1.5KE110A | 1.5KE110A | 1.5KE36C | 1.5KE36CA |
| 1.5CE120A | 1.5KE120A | 1.5CE43CA | 1.5KE43CA | 1.5KE110C | 1.5KE110CA | 1.5KE36CA | 1.5KE36CA |
| 1.5CE120C | 1.5KE120CA | 1.5CE47 | 1.5KE47A | 1.5KE110CA | 1.5KE110CA | 1.5KE39 | 1.5KE39A |
| 1.5CE120CA | 1.5KE120CA | 1.5CE47A | 1.5KE47A | 1.5KE11A | 1.5KE11A | 1.5KE39A | 1.5KE39A |
| 1.5CE12A | 1.5KE12A | 1.5CE47C | 1.5KE47CA | 1.5KE11C | 1.5KE11CA | 1.5KE39C | 1.5KE39CA |
| 1.5CE12C | 1.5KE12CA | 1.5CE47CA | 1.5KE47CA | 1.5KE11CA | 1.5KE11CA | 1.5KE39CA | 1.5KE39CA |
| 1.5CE12CA | 1.5KE12CA | 1.5CE51 | 1.5KE51A | 1.5KE12 | 1.5KE12A | 1.5KE400 | 1.5KE400A |
| 1.5CE13 | 1.5KE13A | 1.5CE51A | 1.5KE51A | 1.5KE120 | 1.5KE120A | 1.5KE400A | 1.5KE400A |
| 1.5CE130 | 1.5KE130A | 1.5CE51C | 1.5KE51CA | 1.5KE120A | 1.5KE120A | 1.5KE400C | 1.5KE400CA |
| 1.5CE130A | 1.5KE130A | 1.5CE51CA | 1.5KE51CA | 1.5KE120C | 1.5KE120CA | 1.5KE400CA | 1.5KE400CA |
| 1.5CE130C | 1.5KE130CA | 1.5CE56 | 1.5KE56A | 1.5KE120CA | 1.5KE120CA | 1.5KE43 | 1.5KE43A |
| 1.5CE130CA | 1.5KE130CA | 1.5CE56A | 1.5KE56A | 1.5KE12A | 1.5KE12A | 1.5KE43A | 1.5KE43A |
| 1.5CE13A | 1.5KE13A | 1.5CE56C | 1.5KE56CA | 1.5KE12C | 1.5KE12CA | 1.5KE43C | 1.5KE43CA |
| 1.5CE13C | 1.5KE13CA | 1.5CE56CA | 1.5KE56CA | 1.5KE12CA | 1.5KE12CA | 1.5KE43CA | 1.5KE43CA |
| 1.5CE13CA | 1.5KE13CA | 1.5CE6 | 1.5KE6.8A | 1.5KE13 | 1.5KE13A | 1.5KE47 | 1.5KE47A |
| 1.5CE15 | 1.5KE15A | 1.5CE6.8A | 1.5KE6.8A | 1.5KE130 | 1.5KE130A | 1.5KE47A | 1.5KE47A |
| 1.5CE150 | 1.5KE150A | 1.5CE6.8C | 1.5KE6.8CA | 1.5KE130A | 1.5KE130A | 1.5KE47C | 1.5KE47CA |
| 1.5CE150A | 1.5KE150A | 1.5CE6.8CA | 1.5KE6.8CA | 1.5KE130C | 1.5KE130CA | 1.5KE47CA | 1.5KE47CA |
| 1.5CE150C | 1.5KE150CA | 1.5CE62 | 1.5KE62A | 1.5KE130CA | 1.5KE130CA | 1.5KE51 | 1.5KE51A |
| 1.5CE150CA | 1.5KE150CA | 1.5CE62A | 1.5KE62A | 1.5KE13A | 1.5KE13A | 1.5KE51A | 1.5KE51A |
| 1.5CE15A | 1.5KE15A | 1.5CE62C | 1.5KE62CA | 1.5KE13C | 1.5KE13CA | 1.5KE51C | 1.5KE51CA |
| 1.5CE15C | 1.5KE15CA | 1.5CE62CA | 1.5KE62CA | 1.5KE13CA | 1.5KE13CA | 1.5KE51CA | 1.5KE51CA |
| 1.5CE15CA | 1.5KE15CA | 1.5CE68 | 1.5KE68A | 1.5KE150 | 1.5KE150A | 1.5KE56 | 1.5KE56A |
| 1.5CE16 | 1.5KE16A | 1.5CE68A | 1.5KE68A | 1.5KE150 | 1.5KE150A | 1.5KE56A | 1.5KE56A |
| 1.5CE160 | 1.5KE160A | 1.5CE68C | 1.5KE68CA | 1.5KE150A | 1.5KE150A | 1.5KE56C | 1.5KE56CA |
| 1.5CE160A | 1.5KE160A | 1.5CE68CA | 1.5KE68CA | 1.5KE150C | 1.5KE150CA | 1.5KE56CA | 1.5KE56CA |
| 1.5CE160C | 1.5KE160CA | 1.5CE7.5 | 1.5KE7.5A | 1.5KE150CA | 1.5KE150CA | 1.5KE6.8 | 1.5KE6.8A |
| 1.5CE160CA | 1.5KE160CA | 1.5CE7.5A | 1.5KE7.5A | 1.5KE15A | 1.5KE15A | 1.5KE6.8A | 1.5KE6.8A |
| 1.5CE16A | 1.5KE16A | 1.5CE7.5CA | 1.5KE7.5CA | 1.5KE15A | 1.5KE15A | 1.5KE6.8C | 1.5KE6.8C |
| 1.5CE16C | 1.5KE16CA | 1.5CE7.5CA | 1.5KE7.5CA | 1.5KE15C | 1.5KE15CA | 1.5KE6.8C | 1.5KE6.8C |
| 1.5CE16CA | 1.5KE16CA | 1.5CE75 | 1.5KE75A | 1.5KE15CA | 1.5KE15CA | 1.5KE6.8CA | 1.5KE6.8CA |
| 1.5CE170 | 1.5KE170A | 1.5CE75A | 1.5KE75A | 1.5KE16 | 1.5KE16A | 1.5KE62 | 1.5KE62A |
| 1.5CE170A | 1.5KE170A | 1.5CE75C | 1.5KE75CA | 1.5KE160 | 1.5KE160A | 1.5KE62A | 1.5KE62A |
| 1.5CE170C | 1.5KE170CA | 1.5CE75CA | 1.5KE75CA | 1.5KE160A | 1.5KE160A | 1.5KE62C | 1.5KE62CA |
| 1.5CE170CA | 1.5KE170CA | 1.5CE8.2 | 1.5KE8.2A | 1.5KE160C | 1.5KE160CA | 1.5KE62CA | 1.5KE62CA |
| 1.5CE18 | 1.5KE18A | 1.5CE8.2A | 1.5KE8.2A | 1.5KE160CA | 1.5KE160CA | 1.5KE68 | 1.5KE68A |
| 1.5CE180 | 1.5KE180A | 1.5CE8.2C | 1.5KE8.2CA | 1.5KE16A | 1.5KE16A | 1.5KE68A | 1.5KE68A |
| 1.5CE180A | 1.5KE180A | 1.5CE8.2CA | 1.5KE8.2CA | 1.5KE16C | 1.5KE16CA | 1.5KE68C | 1.5KE68CA |
| 1.5CE180C | 1.5KE180CA | 1.5CE82 | 1.5KE82A | 1.5KE16CA | 1.5KE16CA | 1.5KE68CA | 1.5KE68CA |
| 1.5CE180CA | 1.5KE180CA | 1.5CE82A | 1.5KE82A | 1.5KE170 | 1.5KE170A | 1.5KE7.5 | 1.5KE7.5A |
| 1.5CE18A | 1.5KE18A | 1.5CE82C | 1.5KE82CA | 1.5KE170A | 1.5KE170A | 1.5KE7.5A | 1.5KE7.5A |
| 1.5CE18C | 1.5KE18CA | 1.5CE82CA | 1.5KE82CA | 1.5KE170C | 1.5KE170CA | 1.5KE7.5C | 1.5KE7.5CA |
| 1.5CE18CA | 1.5KE18CA | 1.5CE9.1 | 1.5KE9.1A | 1.5KE170CA | 1.5KE170CA | 1.5KE7.5CA | 1.5KE7.5CA |
| 1.5CE20 | 1.5KE20A | 1.5CE9.1A | 1.5KE9.1A | 1.5KE18 | 1.5KE18A | 1.5KE75 | 1.5KE75A |
| 1.5CE200 | 1.5KE200A | 1.5CE9.1C | 1.5KE9.1CA | 1.5KE180 | 1.5KE180 | 1.5KE75A | 1.5KE75A |
| 1.5CE200A | 1.5KE200A | 1.5CE9.1CA | 1.5KE9.1CA | 1.5KE180 | 1.5KE180 | 1.5KE75C | 1.5KE75CA |
| 1.5CE200C | 1.5KE200CA | 1.5CE91 | 1.5KE91A | 1.5KE180A | 1.5KE180A | 1.5KE75CA | 1.5KE75CA |
| 1.5CE200CA | 1.5KE200CA | 1.5CE91A | 1.5KE91A | 1.5KE180C | 1.5KE180C | 1.5KE8.2 | 1.5KE8.2A |
| 1.5CE20A | 1.5KE20A | 1.5CE91C | 1.5KE91CA | 1.5KE180C | 1.5KE180C | 1.5KE8.2A | 1.5KE8.2A |
| 1.5CE20C | 1.5KE20CA | 1.5CE91CA | 1.5KE91CA | 1.5KE180CA | 1.5KE180CA | 1.5KE8.2C | 1.5KE8.2CA |
| 1.5CE20CA | 1.5KE20CA | 1.5KA10 | 1.5KE10A | 1.5KE18A | 1.5KE18A | 1.5KE8.2CA | 1.5KE8.2CA |
| 1.5CE22 | 1.5KE22A | 1.5KA10A | 1.5KE10A | 1.5KE18C | 1.5KE18CA | 1.5KE82 | 1.5KE82A |
| 1.5CE220 | 1.5KE220A | 1.5KA11 | 1.5KE11A | 1.5KE18CA | 1.5KE18CA | 1.5KE82A | 1.5KE82A |
| 1.5CE220A | 1.5KE220A | 1.5KA11A | 1.5KE11A | 1.5KE20 | 1.5KE20A | 1.5KE82C | 1.5KE82CA |
| 1.5CE220C | 1.5KE220CA | 1.5KA12 | 1.5KE12A | 1.5KE200 | 1.5KE200A | 1.5KE82CA | 1.5KE82CA |
| 1.5CE220CA | 1.5KE220CA | 1.5KA12A | 1.5KE12A | 1.5KE200A | 1.5KE200A | 1.5KE9.1 | 1.5KE9.1A |
| 1.5CE22A | 1.5KE22A | 1.5KA13 | 1.5KE13A | 1.5KE200C | 1.5KE200CA | 1.5KE9.1A | 1.5KE9.1A |
| 1.5CE22C | 1.5KE22CA | 1.5KA13A | 1.5KE13A | 1.5KE200CA | 1.5KE200CA | 1.5KE9.1C | 1.5KE9.1CA |
| 1.5CE22CA | 1.5KE22CA | 1.5KA15 | 1.5KE15A | 1.5KE20A | 1.5KE20A | 1.5KE9.1CA | 1.5KE9.1CA |
| 1.5CE24 | 1.5KE24A | 1.5KA15A | 1.5KE15A | 1.5KE20C | 1.5KE20CA | 1.5KE91 | 1.5KE91A |
| 1.5CE24A | 1.5KE24A | 1.5KA16 | 1.5KE16A | 1.5KE20CA | 1.5KE20CA | 1.5KE91A | 1.5KE91A |
| 1.5CE24C | 1.5KE24CA | 1.5KA16A | 1.5KE16A | 1.5KE22 | 1.5KE22A | 1.5KE91C | 1.5KE91CA |
| 1.5CE24CA | 1.5KE24CA | 1.5KA18 | 1.5KE18A | 1.5KE220 | 1.5KE220A | 1.5KE91CA | 1.5KE91CA |
| 1.5CE250A | 1.5KE250A | 1.5KA18A | 1.5KE18A | 1.5KE220A | 1.5KE220A | 1.5SMC10A | SMCJ8.0A |
| 1.5CE250C | 1.5KE250CA | 1.5KA20 | 1.5KE20A | 1.5KE220C | 1.5KE220CA | 1.5SMC10AT3 | SMCJ8.0A |
| 1.5CE250CA | 1.5KE250CA | 1.5KA20A | 1.5KE20A | 1.5KE220CA | 1.5KE220CA | 1.5SMC11A | SMCJ8.5A |
| 1.5CE27 | 1.5KE27A | 1.5KA22 | 1.5KE22A | 1.5KE22A | 1.5KE22A | 1.5SMC11AT3 | SMCJ8.5A |
| 1.5CE27A | 1.5KE27A | 1.5KA22A | 1.5KE22A | 1.5KE22C | 1.5KE22CA | 1.5SMC12A | SMCJ10A |
| 1.5CE27C | 1.5KE27CA | 1.5KA24 | 1.5KE24A | 1.5KE22CA | 1.5KE22CA | 1.5SMC12AT3 | SMCJ10A |
| 1.5CE27CA | 1.5KE27CA | 1.5KA24A | 1.5KE24A | 1.5KE24 | 1.5KE24A | 1.5SMC13A | SMCJ11A |
| 1.5CE30 | 1.5KE30A | 1.5KA27 | 1.5KE27A | 1.5KE24A | 1.5KE24A | 1.5SMC13AT3 | SMCJ11A |
| 1.5CE300 | 1.5KE300A | 1.5KA27A | 1.5KE27A | 1.5KE24C | 1.5KE24CA | 1.5SMC15A | SMCJ12A |
| 1.5CE300A | 1.5KE300A | 1.5KA30 | 1.5KE30A | 1.5KE24CA | 1.5KE24CA | 1.5SMC15AT3 | SMCJ12A |
| 1.5CE300C | 1.5KE300CA | 1.5KA30A | 1.5KE30A | 1.5KE250 | 1.5KE250A | 1.5SMC16A | SMCJ13A |
| 1.5CE300CA | 1.5KE300CA | 1.5KA33 | 1.5KE33A | 1.5KE250A | 1.5KE250A | 1.5SMC16AT3 | SMCJ13A |
| 1.5CE30A | 1.5KE30A | 1.5KA33A | 1.5KE33A | 1.5KE250C | 1.5KE250CA | 1.5SMC18A | SMCJ15A |
| 1.5CE30C | 1.5KE30CA | 1.5KA36 | 1.5KE36A | 1.5KE250CA | 1.5KE250CA | 1.5SMC18AT3 | SMCJ15A |
| 1.5CE30CA | 1.5KE30CA | 1.5KA36A | 1.5KE36A | 1.5KE27 | 1.5KE27A | 1.5SMC20A | SMCJ16A |
| 1.5CE33 | 1.5KE33A | 1.5KA39 | 1.5KE39A | 1.5KE27A | 1.5KE27A | 1.5SMC20AT3 | SMCJ16A |
| 1.5CE33A | 1.5KE33A | 1.5KA39A | 1.5KE39A | 1.5KE27C | 1.5KE27CA | 1.5SMC22A | SMCJ18A |
| 1.5CE33C | 1.5KE33CA | 1.5KA43 | 1.5KE43A | 1.5KE27CA | 1.5KE27CA | 1.5SMC22AT3 | SMCJ18A |
| 1.5CE33CA | 1.5KE33CA | 1.5KA43A | 1.5KE43A | 1.5KE30 | 1.5KE30A | 1.5SMC24A | SMCJ20A |
| 1.5CE350 | 1.5KE350A | 1.5KA6.8 | 1.5KE6.8A | 1.5KE300 | 1.5KE300A | 1.5SMC24AT3 | SMCJ20A |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|------------|----------------|---------|----------------|---------|----------------|-----------|
| 1.5SMC27A | SMCJ22A | 1B005M | DF005M | 1N4586GP | 1N4007G | 1N5406GP | 1N5406G |
| 1.5SMC27AT3 | SMCJ22A | 1B01M | DF01M | 1N486B | 1N4004L | 1N5407 | 1N5407 |
| 1.5SMC30A | SMCJ24A | 1B01S | DF01S | 1N4933 | 1N4933 | 1N5407G | 1N5407G |
| 1.5SMC30AT3 | SMCJ24A | 1B02M | DF02M | 1N4933G | 1N4933G | 1N5407GP | 1N5407G |
| 1.5SMC33A | SMCJ26A | 1B02S | DF02S | 1N4933GP | 1N4933G | 1N5408 | 1N5408 |
| 1.5SMC33AT3 | SMCJ26A | 1B04M | DF04M | 1N4934 | 1N4934 | 1N5408G | 1N5408G |
| 1.5SMC36A | SMCJ30A | 1B04S | DF04S | 1N4934G | 1N4934G | 1N5408GP | 1N5408G |
| 1.5SMC36AT3 | SMCJ30A | 1B06M | DF06M | 1N4934GP | 1N4934G | 1N5415 | PR3001 |
| 1.5SMC39A | SMCJ33A | 1B06S | DF06S | 1N4935 | 1N4935 | 1N5416 | PR3002 |
| 1.5SMC39AT3 | SMCJ33A | 1B08M | DF08M | 1N4935G | 1N4935G | 1N5417 | PR3003 |
| 1.5SMC43A | SMCJ36A | 1B08S | DF08S | 1N4935GP | 1N4935G | 1N5418 | PR3004 |
| 1.5SMC43AT3 | SMCJ36A | 1B10M | DF10M | 1N4936 | 1N4936 | 1N5419 | PR3005 |
| 1.5SMC47A | SMCJ40A | 1B10S | DF10S | 1N4936G | 1N4936G | 1N5420 | PR3005 |
| 1.5SMC47AT3 | SMCJ40A | 1F1 | PR1001L | 1N4936GP | 1N4936G | 1N5550 | LT6A03 |
| 1.5SMC51A | SMCJ43A | 1F2 | PR1002L | 1N4937 | 1N4937 | 1N5551 | LT6A04 |
| 1.5SMC51AT3 | SMCJ43A | 1F3 | PR1003L | 1N4937G | 1N4937G | 1N5552 | LT6A05 |
| 1.5SMC56A | SMCJ45A | 1F4 | PR1004L | 1N4937GP | 1N4937G | 1N5553 | LT6A06 |
| 1.5SMC56AT3 | SMCJ45A | 1F5 | PR1005L | 1N4942 | PR1001 | 1N5554 | LT6A07 |
| 1.5SMC6.8A | SMCJ5.0A | 1F6 | PR1006L | 1N4942G | PR1001G | 1N5614 | 1N4003G |
| 1.5SMC6.8AT3 | SMCJ5.0A | 1F7 | PR1007L | 1N4942GP | PR1001G | 1N5615 | PR1003G |
| 1.5SMC62A | SMCJ51A | 1H1 | UG1001 | 1N4943 | PR1002 | 1N5616 | 1N4004G |
| 1.5SMC62AT3 | SMCJ51A | 1H2 | UG1002 | 1N4943G | PR1002G | 1N5617 | PR1004G |
| 1.5SMC68A | SMCJ54A | 1H3 | UG1003 | 1N4943GP | PR1002G | 1N5618 | 1N4005G |
| 1.5SMC68AT3 | SMCJ54A | 1H4 | UG1004 | 1N4944 | PR1003 | 1N5619 | PR1005G |
| 1.5SMC7.5A | SMCJ6.0A | 1H5 | UG1004 | 1N4944G | PR1003G | 1N5620 | 1N4006G |
| 1.5SMC7.5AT3 | SMCJ6.0A | 1H6 | UG1005 | 1N4944GP | PR1003G | 1N5621 | PR1006G |
| 1.5SMC75A | SMCJ60A | 1N17 | 1N5817 | 1N4945 | PR1005 | 1N5622 | 1N4007G |
| 1.5SMC75AT3 | SMCJ60A | 1N18 | 1N5818 | 1N4945G | PR1005G | 1N5623 | PR1007G |
| 1.5SMC8.2A | SMCJ6.5A | 1N19 | 1N5819 | 1N4945GP | PR1005G | 1N5624 | 1N5402G |
| 1.5SMC8.2AT3 | SMCJ6.5A | 1N3611 | 1N4003G | 1N4946 | PR1005 | 1N5624GP | 1N5402G |
| 1.5SMC82A | SMCJ64A | 1N3611GP | 1N4003G | 1N4946G | PR1005G | 1N5625 | 1N5404G |
| 1.5SMC82AT3 | SMCJ64A | 1N3612 | 1N4004G | 1N4946GP | PR1005G | 1N5625GP | 1N5404G |
| 1.5SMC9.1A | SMCJ7.0A | 1N3612GP | 1N4004G | 1N4947 | PR1006 | 1N5626 | 1N5406G |
| 1.5SMC9.1AT3 | SMCJ7.0A | 1N3613 | 1N4005G | 1N4947G | PR1006G | 1N5626GP | 1N5406G |
| 1.5SMC91A | SMCJ75A | 1N3613GP | 1N4005G | 1N4947GP | PR1006G | 1N5627 | 1N5407G |
| 1.5SMC91AT3 | SMCJ75A | 1N3614 | 1N4006G | 1N4948 | PR1007 | 1N5627GP | 1N5407G |
| 10A01 | LT10A01 | 1N3614GP | 1N4006G | 1N4948G | PR1007G | 1N5629 | 1.5KE6.8A |
| 10A02 | LT10A02 | 1N3657GP | 1N4007G | 1N4948GP | PR1007G | 1N5629A | 1.5KE6.8A |
| 10A03 | LT10A03 | 1N3957 | D7G | 1N5059 | 1N4003 | 1N5630 | 1.5KE7.5A |
| 10A04 | LT10A04 | 1N4001 | 1N4001 | 1N5059GP | 1N4003G | 1N5630A | 1.5KE7.5A |
| 10A05 | LT10A05 | 1N4001A | 1N4001 | 1N5060 | 1N4004 | 1N5631 | 1.5KE8.2A |
| 10A06 | LT10A06 | 1N4001G | 1N4001G | 1N5060GP | 1N4004G | 1N5631A | 1.5KE8.2A |
| 10A07 | LT10A07 | 1N4001GP | 1N4001G | 1N5061 | 1N4005 | 1N5632 | 1.5KE9.1A |
| 10BF10 | ES2B | 1N4001GPP | 1N4001G | 1N5061GP | 1N4005G | 1N5632A | 1.5KE9.1A |
| 10BF20 | ES2D | 1N4001ID | 1N4001G | 1N5062 | 1N4006 | 1N5633 | 1.5KE10A |
| 10BQ015 | B120B | 1N4002 | 1N4002 | 1N5062GP | 1N4006G | 1N5633A | 1.5KE10A |
| 10BQ020 | B120B | 1N4002A | 1N4002 | 1N5185 | PR3001G | 1N5634 | 1.5KE11A |
| 10BQ030 | B130B | 1N4002G | 1N4002G | 1N5186 | PR3002G | 1N5634A | 1.5KE11A |
| 10BQ030 | B130B | 1N4002GP | 1N4002G | 1N5187 | PR3003G | 1N5635 | 1.5KE12A |
| 10BQ040 | B140B | 1N4002GPP | 1N4002G | 1N5188 | PR3004G | 1N5635A | 1.5KE12A |
| 10BQ050 | B150B | 1N4002ID | 1N4002G | 1N5189 | PR3005G | 1N5636 | 1.5KE13A |
| 10BQ060 | B160B | 1N4003 | 1N4003 | 1N5190 | PR3005G | 1N5636A | 1.5KE13A |
| 10BQ070 | B170B | 1N4003A | 1N4003 | 1N5196 | 1N4004L | 1N5637 | 1.5KE15A |
| 10BQ080 | B180B | 1N4003G | 1N4003G | 1N5391 | 1N5391 | 1N5637A | 1.5KE15A |
| 10BQ090 | B190B | 1N4003GP | 1N4003G | 1N5391G | 1N5391G | 1N5638 | 1.5KE16A |
| 10BQ100 | B1100LB | 1N4003GPP | 1N4003G | 1N5391GP | 1N5391G | 1N5638A | 1.5KE16A |
| 10ETF02S | MURB1620CT | 1N4003ID | 1N4003G | 1N5392 | 1N5392 | 1N5639 | 1.5KE18A |
| 10MQ015 | B120 | 1N4004 | 1N4004 | 1N5392G | 1N5392G | 1N5639A | 1.5KE18A |
| 10MQ020 | B120 | 1N4004A | 1N4004 | 1N5392GP | 1N5392G | 1N5640 | 1.5KE20 |
| 10MQ020N | B120 | 1N4004G | 1N4004G | 1N5393 | 1N5393 | 1N5640 | 1.5KE20 |
| 10MQ030 | B130 | 1N4004GP | 1N4004G | 1N5393G | 1N5393G | 1N5640A | 1.5KE20 |
| 10MQ030N | B130 | 1N4004GPP | 1N4004G | 1N5393GP | 1N5393G | 1N5640A | 1.5KE20 |
| 10MQ040 | B140 | 1N4004ID | 1N4004G | 1N5394 | 1N5395 | 1N5641 | 1.5KE22A |
| 10MQ040N | B150 | 1N4005 | 1N4005 | 1N5394G | 1N5395G | 1N5641A | 1.5KE22A |
| 10MQ050 | B150 | 1N4005A | 1N4005 | 1N5394GP | 1N5395G | 1N5642 | 1.5KE24A |
| 10MQ050N | B150 | 1N4005G | 1N4005G | 1N5395 | 1N5395 | 1N5642A | 1.5KE24A |
| 10MQ060 | B160 | 1N4005GP | 1N4005G | 1N5395G | 1N5395G | 1N5643 | 1.5KE27A |
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| 10MQ070 | B170 | 1N4005ID | 1N4005G | 1N5396 | 1N5397 | 1N5644 | 1.5KE30A |
| 10MQ070N | B170 | 1N4006 | 1N4006 | 1N5396G | 1N5397G | 1N5644A | 1.5KE30A |
| 10MQ080 | B180 | 1N4006A | 1N4006 | 1N5396GP | 1N5397G | 1N5645 | 1.5KE33A |
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| 10MQ090 | B190 | 1N4006GP | 1N4006G | 1N5397G | 1N5397G | 1N5646 | 1.5KE36A |
| 10MQ090N | B190 | 1N4006GPP | 1N4006G | 1N5397GP | 1N5397G | 1N5646A | 1.5KE36A |
| 10MQ100 | B1100 | 1N4006ID | 1N4006G | 1N5398 | 1N5398 | 1N5647 | 1.5KE39A |
| 10MQ100N | B1100 | 1N4007 | 1N4007 | 1N5398G | 1N5398G | 1N5647A | 1.5KE39A |
| 10TQ045 | SBGL1045 | 1N4007A | 1N4007 | 1N5398GP | 1N5398G | 1N5648 | 1.5KE43A |
| 10TQ045S | SBGL1045CT | 1N4007G | 1N4007G | 1N5399 | 1N5399 | 1N5648A | 1.5KE43A |
| 11DQ015 | 1N5817 | 1N4007GP | 1N4007G | 1N5399G | 1N5399G | 1N5649 | 1.5KE47A |
| 11DQ04 | 1N5819 | 1N4007GPP | 1N4007G | 1N5399GP | 1N5399G | 1N5649A | 1.5KE47A |
| 12CTQ045 | SBGL1645CT | 1N4007ID | 1N4007G | 1N5400 | 1N5400 | 1N5650 | 1.5KE51A |
| 12CTQ045S | SBGL1645CT | 1N4245 | 1N4003 | 1N5400G | 1N5400G | 1N5650A | 1.5KE51A |
| 12TC045 | SBGL1645 | 1N4245GP | 1N4003G | 1N5400GP | 1N5400G | 1N5651 | 1.5KE56A |
| 12TQ045S | SBGL1645CT | 1N4246 | 1N4004 | 1N5401 | 1N5401 | 1N5651A | 1.5KE56A |
| 15CTQ045 | SBGL1645CT | 1N4246GP | 1N4004G | 1N5401G | 1N5401G | 1N5652 | 1.5KE62A |
| 15CTQ045S | SBGL1645CT | 1N4247 | 1N4005 | 1N5401GP | 1N5401G | 1N5652A | 1.5KE62A |
| 15MQ020N | B220A | 1N4247GP | 1N4005G | 1N5402 | 1N5402 | 1N5653 | 1.5KE68A |
| 15MQ030N | B230A | 1N4248 | 1N4006 | 1N5402G | 1N5402G | 1N5653A | 1.5KE68A |
| 15MQ040N | B250A | 1N4248GP | 1N4006G | 1N5402GP | 1N5402G | 1N5654 | 1.5KE75A |
| 15MQ050N | B250A | 1N4249 | 1N4007 | 1N5403 | 1N5404 | 1N5654A | 1.5KE75A |
| 15MQ060N | B260A | 1N4249GP | 1N4007G | 1N5403G | 1N5404G | 1N5655 | 1.5KE82A |
| 18TQ045S | SBG2045CT | 1N4383 | 1N5393S | 1N5403GP | 1N5404G | 1N5655A | 1.5KE82A |
| 19TQ015S | SBG2030CT | 1N4383GP | 1N4003G | 1N5404 | 1N5404 | 1N5656 | 1.5KE91A |
| 1A1 | D1G | 1N4384 | 1N5395S | 1N5404G | 1N5404G | 1N5656A | 1.5KE91A |
| 1A2 | D2G | 1N4384GP | 1N4004G | 1N5404GP | 1N5404G | 1N5657 | 1.5KE100A |
| 1A3 | D3G | 1N4385 | 1N5397S | 1N5405 | 1N5406 | 1N5657A | 1.5KE100A |
| 1A4 | D4G | 1N4385GP | 1N4005G | 1N5405G | 1N5406G | 1N5658 | 1.5KE110A |
| 1A5 | D5G | 1N4585 | 1N5398S | 1N5405GP | 1N5406G | 1N5658A | 1.5KE110A |
| 1A6 | D6G | 1N4585GP | 1N4006G | 1N5406 | 1N5406 | 1N5659 | 1.5KE120A |
| 1A7 | D7G | 1N4586 | 1N5399S | 1N5406G | 1N5406G | 1N5659A | 1.5KE120A |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|------------|----------------|------------|----------------|-----------|----------------|----------|
| 1N5660 | 1.5KE130A | 1N6068A | 1.5KE170CA | 1N6280A | 1.5KE24A | 1N6428 | P6KE51A |
| 1N5660A | 1.5KE130A | 1N6069 | 1.5KE180CA | 1N6281A | 1.5KE27A | 1N6428A | P6KE51A |
| 1N5661 | 1.5KE150A | 1N6069A | 1.5KE180CA | 1N6282A | 1.5KE30A | 1N6429 | P6KE56A |
| 1N5661A | 1.5KE150A | 1N6070 | 1.5KE180CA | 1N6283A | 1.5KE33A | 1N6429A | P6KE56A |
| 1N5662 | 1.5KE160A | 1N6070A | 1.5KE180CA | 1N6284A | 1.5KE36A | 1N6430 | P6KE56A |
| 1N5662A | 1.5KE160A | 1N6071 | 1.5KE200CA | 1N6285A | 1.5KE39A | 1N6430A | P6KE56A |
| 1N5663 | 1.5KE170A | 1N6071A | 1.5KE200CA | 1N6286A | 1.5KE43A | 1N6431 | P6KE62A |
| 1N5663A | 1.5KE170A | 1N6072 | 1.5KE220CA | 1N6287A | 1.5KE47A | 1N6431A | P6KE62A |
| 1N5664 | 1.5KE180A | 1N6072A | 1.5KE220CA | 1N6288A | 1.5KE51A | 1N6432 | P6KE68A |
| 1N5664A | 1.5KE180A | 1N6073 | SF30AG | 1N6289A | 1.5KE56A | 1N6432A | P6KE68A |
| 1N5665 | 1.5KE200A | 1N6074 | SF30BG | 1N6290A | 1.5KE62A | 1N6433 | P6KE68A |
| 1N5665A | 1.5KE200A | 1N6075 | SF30CG | 1N6291A | 1.5KE68A | 1N6433A | P6KE68A |
| 1N5802 | SF30AG | 1N6076 | PR6001 | 1N6292A | 1.5KE75A | 1N6434 | P6KE75A |
| 1N5803 | SF30BG | 1N6077 | PR6002 | 1N6293A | 1.5KE82A | 1N6434A | P6KE75A |
| 1N5804 | SF30BG | 1N6078 | PR6003 | 1N6294A | 1.5KE91A | 1N6435 | P6KE75A |
| 1N5805 | SF30CG | 1N6102A | SA6.0CA | 1N6295A | 1.5KE100A | 1N6435A | P6KE75A |
| 1N5806 | SF30CG | 1N6103A | SA6.5CA | 1N6296A | 1.5KE110A | 1N6436 | P6KE82A |
| 1N5807 | PR6001 | 1N6104A | SA7.0CA | 1N6297A | 1.5KE120A | 1N6436A | P6KE82A |
| 1N5808 | PR6002 | 1N6105A | SA7.5CA | 1N6298A | 1.5KE130A | 1N6437 | P6KE91A |
| 1N5809 | PR6002 | 1N6106A | SA8.5CA | 1N6299A | 1.5KE150A | 1N6437A | P6KE91A |
| 1N5810 | PR6003 | 1N6107A | SA9.0CA | 1N6300A | 1.5KE160A | 1N6438 | P6KE91A |
| 1N5811 | PR6003 | 1N6108A | SA10A | 1N6301A | 1.5KE170A | 1N6438A | P6KE91A |
| 1N5817 | 1N5817 | 1N6109A | SA11CA | 1N6302A | 1.5KE180A | 1N6439 | P6KE100A |
| 1N5817G | 1N5817 | 1N6110A | SA12CA | 1N6303A | 1.5KE200A | 1N6439A | P6KE100A |
| 1N5818 | 1N5818 | 1N6111A | SA13CA | 1N6357 | 1.5KE10A | 1N6440 | P6KE110A |
| 1N5818G | 1N5818 | 1N6112A | SA15CA | 1N6358 | 1.5KE12A | 1N6440A | P6KE110A |
| 1N5819 | 1N5819 | 1N6113A | SA17CA | 1N6359 | 1.5KE15A | 1N6441 | P6KE120A |
| 1N5819G | 1N5819 | 1N6114A | SA18CA | 1N6361 | 1.5KE22A | 1N6441A | P6KE120A |
| 1N5820 | 1N5820 | 1N6115A | SA20CA | 1N6362 | 1.5KE27A | 1N6442 | P6KE130A |
| 1N5821 | 1N5821 | 1N6116A | SA22CA | 1N6364 | 1.5KE56A | 1N6442A | P6KE130A |
| 1N5822 | 1N5822 | 1N6117A | SA24CA | 1N6365 | 1.5KE10CA | 1N6443 | P6KE150A |
| 1N5908 | 1.5KE6.8A | 1N6118A | SA28CA | 1N6366 | 1.5KE12CA | 1N6443A | P6KE150A |
| 1N6036 | 1.5KE6.8CA | 1N6119A | SA30CA | 1N6367 | 1.5KE15CA | 1N6444 | P6KE160A |
| 1N6036 | 1.5KE6.8CA | 1N6120A | SA33CA | 1N6369 | 1.5KE22CA | 1N6444A | P6KE160A |
| 1N6036A | 1.5KE7.5CA | 1N6121A | SA36CA | 1N6370 | 1.5KE27CA | 1N6445 | P6KE180A |
| 1N6037 | 1.5KE8.2CA | 1N6122A | SA40CA | 1N6372 | 1.5KE56CA | 1N6445A | P6KE180A |
| 1N6037A | 1.5KE8.2CA | 1N6123A | SA43CA | 1N6374 | 1.5KE10A | 1N6446 | P6KE200A |
| 1N6038 | 1.5KE9.1CA | 1N6124A | SA48CA | 1N6375 | 1.5KE12A | 1N6446A | P6KE200A |
| 1N6038A | 1.5KE9.1CA | 1N6125A | SA51CA | 1N6376 | 1.5KE15A | 1N6447 | P6KE200A |
| 1N6039 | 1.5KE10CA | 1N6126A | SA58CA | 1N6376 | 1.5KE15A | 1N6447A | P6KE200A |
| 1N6039A | 1.5KE10CA | 1N6127A | SA64CA | 1N6378 | 1.5KE22A | 1N6448 | P6KE220A |
| 1N6040 | 1.5KE11CA | 1N6128A | SA70CA | 1N6379 | 1.5KE27A | 1N6448A | P6KE220A |
| 1N6040A | 1.5KE11CA | 1N6129A | SA75CA | 1N6381 | 1.5KE56A | 1N6449 | P6KE250A |
| 1N6041 | 1.5KE12CA | 1N6130A | SA85CA | 1N6382 | 1.5KE10CA | 1N6449A | P6KE250A |
| 1N6041A | 1.5KE12CA | 1N6131A | SA90CA | 1N6383 | 1.5KE12CA | 1N6450 | P6KE250A |
| 1N6042 | 1.5KE13CA | 1N6132A | SA100CA | 1N6386 | 1.5KE22CA | 1N6450A | P6KE250A |
| 1N6042A | 1.5KE13CA | 1N6133A | SA110CA | 1N6387 | 1.5KE27CA | 1N645-1 | 1N4004L |
| 1N6043 | 1.5KE15CA | 1N6134A | SA120CA | 1N6389 | 1.5KE56CA | 1N6461 | SA5.0A |
| 1N6043A | 1.5KE15CA | 1N6135A | SA139CA | 1N6402 | P6KE6.8A | 1N6462 | SA6.0A |
| 1N6044 | 1.5KE16CA | 1N6136A | SA150CA | 1N6402A | P6KE6.8A | 1N6463 | SA12A |
| 1N6044A | 1.5KE16CA | 1N6137A | SA170CA | 1N6403 | P6KE7.5A | 1N6464 | SA15A |
| 1N6045 | 1.5KE18CA | 1N6138A | 1.5KE6.8CA | 1N6403A | P6KE7.5A | 1N6465 | SA24A |
| 1N6045A | 1.5KE18CA | 1N6139A | 1.5KE7.5CA | 1N6404 | P6KE7.5A | 1N6466 | SA30A |
| 1N6046 | 1.5KE20CA | 1N6140A | 1.5KE8.2CA | 1N6404A | P6KE7.5A | 1N6467 | SA40A |
| 1N6046A | 1.5KE20CA | 1N6141A | 1.5KE9.1CA | 1N6405 | P6KE8.2A | 1N6468 | SA51A |
| 1N6047 | 1.5KE22CA | 1N6142A | 1.5KE10CA | 1N6405A | P6KE8.2A | 1N647-1 | 1N4004L |
| 1N6047A | 1.5KE22CA | 1N6143A | 1.5KE11CA | 1N6406 | P6KE9.1A | 1N649-1 | 1N4006L |
| 1N6048 | 1.5KE24CA | 1N6144A | 1.5KE12CA | 1N6406A | P6KE9.1A | 1N6536 | UF1004 |
| 1N6048A | 1.5KE24CA | 1N6145A | 1.5KE13CA | 1N6407 | P6KE10A | 1N6540 | UF1006 |
| 1N6048A | 1.5KE24CA | 1N6146A | 1.5KE15CA | 1N6407A | P6KE10A | 1N6543 | UF3004 |
| 1N6048A | 1.5KE24CA | 1N6147A | 1.5KE16CA | 1N6408 | P6KE10A | 1N6544 | UF3005 |
| 1N6049 | 1.5KE27CA | 1N6148A | 1.5KE18CA | 1N6408A | P6KE10A | 1N6545 | UF3005 |
| 1N6049A | 1.5KE27CA | 1N6149A | 1.5KE20CA | 1N6409 | P6KE11A | 1N6546 | UF3006 |
| 1N6050 | 1.5KE30CA | 1N6150A | 1.5KE22CA | 1N6409A | P6KE11A | 1N6547 | UF3006 |
| 1N6050A | 1.5KE30CA | 1N6151A | 1.5KE24CA | 1N6410 | P6KE12A | 1N6548 | UF3007 |
| 1N6051 | 1.5KE33CA | 1N6152A | 1.5KE27CA | 1N6410A | P6KE12A | 1N6549 | UF3007 |
| 1N6051A | 1.5KE33CA | 1N6153A | 1.5KE30CA | 1N6411 | P6KE13A | 1N6620 | UF2003 |
| 1N6052 | 1.5KE36CA | 1N6154A | 1.5KE33CA | 1N6411A | P6KE13A | 1N6625 | UF1507S |
| 1N6052A | 1.5KE36CA | 1N6155A | 1.5KE36CA | 1N6412 | P6KE15A | 1N6626 | PR6003 |
| 1N6053 | 1.5KE39CA | 1N6156A | 1.5KE39CA | 1N6412A | P6KE15A | 1N6627 | PR6004 |
| 1N6053A | 1.5KE39CA | 1N6157A | 1.5KE43CA | 1N6413 | P6KE15A | 1N6628 | PR6005 |
| 1N6054 | 1.5KE43CA | 1N6158A | 1.5KE47CA | 1N6413A | P6KE15A | 1N6629 | UF3006 |
| 1N6054A | 1.5KE43CA | 1N6159A | 1.5KE51CA | 1N6414 | P6KE18A | 1N6630 | UF3007 |
| 1N6055 | 1.5KE47CA | 1N6160A | 1.5KE56CA | 1N6414A | P6KE18A | IS20 | SB120 |
| 1N6055A | 1.5KE47CA | 1N6161A | 1.5KE62CA | 1N6415 | P6KE18A | IS30 | SB130 |
| 1N6056 | 1.5KE51CA | 1N6162A | 1.5KE68CA | 1N6415A | P6KE18A | IS40 | SB140 |
| 1N6056A | 1.5KE51CA | 1N6163A | 1.5KE75CA | 1N6416 | P6KE20A | IS50 | SB150 |
| 1N6057 | 1.5KE56CA | 1N6164A | 1.5KE82CA | 1N6416A | P6KE20A | IS60 | SB160 |
| 1N6057A | 1.5KE56CA | 1N6165A | 1.5KE91CA | 1N6417 | P6KE20A | ISMA10A | SMAJ10A |
| 1N6058 | 1.5KE62CA | 1N6166A | 1.5KE100CA | 1N6417A | P6KE20A | ISMA10AT3 | SMAJ10A |
| 1N6058A | 1.5KE62CA | 1N6167A | 1.5KE110CA | 1N6418 | P6KE22A | ISMA10CAT3 | SMAJ10CA |
| 1N6059 | 1.5KE68CA | 1N6168A | 1.5KE120CA | 1N6418A | P6KE22A | ISMA11A | SMAJ10CA |
| 1N6059A | 1.5KE68CA | 1N6169A | 1.5KE130CA | 1N6419 | P6KE24A | ISMA11AT3 | SMAJ11A |
| 1N6060 | 1.5KE75CA | 1N6170A | 1.5KE150CA | 1N6419A | P6KE24A | ISMA11CAT3 | SMAJ11A |
| 1N6060A | 1.5KE75CA | 1N6171A | 1.5KE160CA | 1N6420 | P6KE27A | ISMA11CAT3 | SMAJ11CA |
| 1N6061 | 1.5KE82CA | 1N6172A | 1.5KE180CA | 1N6420A | P6KE27A | ISMA12A | SMAJ12A |
| 1N6061A | 1.5KE82CA | 1N6173A | 1.5KE200CA | 1N6421 | P6KE30A | ISMA12AT3 | SMAJ12A |
| 1N6062 | 1.5KE91CA | 1N6267A | 1.5KE6.8A | 1N6421A | P6KE30A | ISMA12CA | SMAJ12CA |
| 1N6062A | 1.5KE91CA | 1N6268A | 1.5KE7.5A | 1N6422 | P6KE33A | ISMA12CAT3 | SMAJ12CA |
| 1N6063 | 1.5KE100CA | 1N6269A | 1.5KE8.2A | 1N6422A | P6KE33A | ISMA13A | SMAJ13A |
| 1N6063A | 1.5KE100CA | 1N6270A | 1.5KE9.1A | 1N6423 | P6KE33A | ISMA13AT3 | SMAJ13A |
| 1N6064 | 1.5KE110CA | 1N6271A | 1.5KE10A | 1N6423A | P6KE36A | ISMA13CA | SMAJ13CA |
| 1N6064A | 1.5KE110CA | 1N6272A | 1.5KE11A | 1N6424 | P6KE36A | ISMA13CAT3 | SMAJ13CA |
| 1N6065 | 1.5KE120CA | 1N6273A | 1.5KE12A | 1N6424A | P6KE36A | ISMA14A | SMAJ14A |
| 1N6065A | 1.5KE120CA | 1N6274A | 1.5KE13A | 1N6425 | P6KE39A | ISMA14AT3 | SMAJ14A |
| 1N6066 | 1.5KE130CA | 1N6275A | 1.5KE15A | 1N6425A | P6KE39A | ISMA14CA | SMAJ14CA |
| 1N6066A | 1.5KE130CA | 1N6276A | 1.5KE16A | 1N6426 | P6KE43A | ISMA14CAT3 | SMAJ14CA |
| 1N6067 | 1.5KE150CA | 1N6277A | 1.5KE18A | 1N6426A | P6KE43A | ISMA15A | SMAJ15A |
| 1N6067A | 1.5KE150CA | 1N6278A | 1.5KE20A | 1N6427 | P6KE47A | ISMA15AT3 | SMAJ15A |
| 1N6068 | 1.5KE170CA | 1N6279A | 1.5KE22A | 1N6427A | P6KE47A | | |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|----------|----------------|----------|----------------|----------|----------------|-----------|
| ISMA15CA | SMAJ15CA | ISMA78AT3 | SMAJ78A | ISMB45AT3 | SMBJ45A | ISMC48AT3 | SMCJ48A |
| ISMA15CAT3 | SMAJ15CA | ISMA78CA | SMAJ78CA | ISMB45CA | SMBJ45CA | ISMC5.0A | SMCJ5.0A |
| ISMA16A | SMAJ16A | ISMA78CAT3 | SMAJ78CA | ISMB45CAT3 | SMBJ45CA | ISMC5.0AT3 | SMCJ5.0A |
| ISMA16AT3 | SMAJ16A | ISMA8.0A | SMAJ8.0A | ISMB48A | SMBJ48A | ISMC51A | SMCJ51A |
| ISMA16CA | SMAJ16CA | ISMA8.0AT3 | SMAJ8.0A | ISMB48AT3 | SMBJ48A | ISMC51AT3 | SMCJ51A |
| ISMA16CAT3 | SMAJ16CA | ISMA8.5A | SMAJ8.5A | ISMB48CA | SMBJ48CA | ISMC54A | SMCJ54A |
| ISMA17A | SMAJ17A | ISMA8.5AT3 | SMAJ8.5A | ISMB48CAT3 | SMBJ48CA | ISMC54AT3 | SMCJ54A |
| ISMA17AT3 | SMAJ17A | ISMA9.0A | SMAJ9.0A | ISMB5.0A | SMBJ5.0A | ISMC58A | SMCJ58A |
| ISMA17CA | SMAJ17CA | ISMA9.0AT3 | SMAJ9.0A | ISMB5.0AT3 | SMBJ5.0A | ISMC58AT3 | SMCJ58A |
| ISMA17CAT3 | SMAJ17CA | ISMB100A | SMBJ100A | ISMB51A | SMBJ51A | ISMC6.0A | SMCJ6.0A |
| ISMA18A | SMAJ18A | ISMB100AT3 | SMBJ100A | ISMB51AT3 | SMBJ51A | ISMC6.0AT3 | SMCJ6.0A |
| ISMA18AT3 | SMAJ18A | ISMB10A | SMBJ10A | ISMB51CA | SMBJ51CA | ISMC6.5A | SMCJ6.5A |
| ISMA18CA | SMAJ18CA | ISMB10AT3 | SMBJ10A | ISMB51CAT3 | SMBJ51CA | ISMC6.5AT3 | SMCJ6.5A |
| ISMA18CAT3 | SMAJ18CA | ISMB10CA | SMBJ10CA | ISMB54A | SMBJ54A | ISMC60A | SMCJ60A |
| ISMA20A | SMAJ20A | ISMB10CAT3 | SMBJ10CA | ISMB54AT3 | SMBJ54A | ISMC60AT3 | SMCJ60A |
| ISMA20AT3 | SMAJ20A | ISMB110A | SMBJ110A | ISMB54CA | SMBJ54CA | ISMC64A | SMCJ64A |
| ISMA20CA | SMAJ20CA | ISMB110AT3 | SMBJ110A | ISMB54CAT3 | SMBJ54CA | ISMC64AT3 | SMCJ64A |
| ISMA20CAT3 | SMAJ20CA | ISMB11A | SMBJ11A | ISMB58A | SMBJ58A | ISMC7.0A | SMCJ7.0A |
| ISMA22A | SMAJ22A | ISMB11AT3 | SMBJ11A | ISMB58AT3 | SMBJ58A | ISMC7.0AT3 | SMCJ7.0A |
| ISMA22AT3 | SMAJ22A | ISMB11CA | SMBJ11CA | ISMB58CA | SMBJ58CA | ISMC7.5A | SMCJ7.5A |
| ISMA22CA | SMAJ22CA | ISMB11CAT3 | SMBJ11CA | ISMB58CAT3 | SMBJ58CA | ISMC7.5AT3 | SMCJ7.5A |
| ISMA22CAT3 | SMAJ22CA | ISMB120A | SMBJ120A | ISMB6.0A | SMBJ6.0A | ISMC70A | SMCJ70A |
| ISMA24A | SMAJ24A | ISMB120AT3 | SMBJ120A | ISMB6.0AT3 | SMBJ6.0A | ISMC70AT3 | SMCJ70A |
| ISMA24AT3 | SMAJ24A | ISMB12A | SMBJ12A | ISMB6.5A | SMBJ6.5A | ISMC75A | SMCJ75A |
| ISMA24CA | SMAJ24CA | ISMB12AT3 | SMBJ12A | ISMB6.5AT3 | SMBJ6.5A | ISMC75AT3 | SMCJ75A |
| ISMA24CAT3 | SMAJ24CA | ISMB12CA | SMBJ12CA | ISMB60A | SMBJ60A | ISMC78A | SMCJ78A |
| ISMA26A | SMAJ26A | ISMB12CAT3 | SMBJ12CA | ISMB60AT3 | SMBJ60A | ISMC78AT3 | SMCJ78A |
| ISMA26AT3 | SMAJ26A | ISMB130A | SMBJ130A | ISMB60CA | SMBJ60CA | ISMC8.0A | SMCJ8.0A |
| ISMA26CA | SMAJ26CA | ISMB130AT3 | SMBJ130A | ISMB60CAT3 | SMBJ60CA | ISMC8.0AT3 | SMCJ8.0A |
| ISMA26CAT3 | SMAJ26CA | ISMB13A | SMBJ13A | ISMB64A | SMBJ64A | ISMC8.5A | SMCJ8.5A |
| ISMA28A | SMAJ28A | ISMB13AT3 | SMBJ13A | ISMB64AT3 | SMBJ64A | ISMC8.5AT3 | SMCJ8.5A |
| ISMA28AT3 | SMAJ28A | ISMB13CA | SMBJ13CA | ISMB64CA | SMBJ64CA | ISMC9.0A | SMCJ9.0A |
| ISMA28CA | SMAJ28CA | ISMB13CAT3 | SMBJ13CA | ISMB64CAT3 | SMBJ64CA | ISMC9.0AT3 | SMCJ9.0A |
| ISMA28CAT3 | SMAJ28CA | ISMB14A | SMBJ14A | ISMB7.0A | SMBJ7.0A | ISR124-050A | PR1001 |
| ISMA30A | SMAJ30A | ISMB14AT3 | SMBJ14A | ISMB7.0AT3 | SMBJ7.0A | ISR124-1000A | PR1007G |
| ISMA30AT3 | SMAJ30A | ISMB14CA | SMBJ14CA | ISMB7.5A | SMBJ7.5A | ISR124-100A | PR1002 |
| ISMA30CA | SMAJ30CA | ISMB14CAT3 | SMBJ14CA | ISMB7.5AT3 | SMBJ7.5A | ISR124-200A | PR1003 |
| ISMA30CAT3 | SMAJ30CA | ISMB150A | SMBJ150A | ISMB70A | SMBJ70A | ISR124-400A | PR1004 |
| ISMA33A | SMAJ33A | ISMB150AT3 | SMBJ150A | ISMB70AT3 | SMBJ70A | ISR124-50A | PR1001 |
| ISMA33AT3 | SMAJ33A | ISMB15A | SMBJ15A | ISMB70CA | SMBJ70CA | ISR124-600A | PR1005 |
| ISMA33CA | SMAJ33CA | ISMB15AT3 | SMBJ15A | ISMB70CAT3 | SMBJ70CA | ISR124-800A | PR1006G |
| ISMA33CAT3 | SMAJ33CA | ISMB15CA | SMBJ15CA | ISMB75A | SMBJ75A | ISR139-050 | 1N4001 |
| ISMA36A | SMAJ36A | ISMB15CAT3 | SMBJ15CA | ISMB75AT3 | SMBJ75A | ISR139-100 | 1N4002 |
| ISMA36AT3 | SMAJ36A | ISMB160A | SMBJ160A | ISMB75CA | SMBJ75CA | ISR139-1000 | 1N4007 |
| ISMA36CA | SMAJ36CA | ISMB160AT3 | SMBJ160A | ISMB75CAT3 | SMBJ75CA | ISR139-200 | 1N4003 |
| ISMA36CAT3 | SMAJ36CA | ISMB16A | SMBJ16A | ISMB78A | SMBJ78A | ISR139-400 | 1N4004 |
| ISMA40A | SMAJ40A | ISMB16AT3 | SMBJ16A | ISMB78AT3 | SMBJ78A | ISR139-50 | 1N4001 |
| ISMA40AT3 | SMAJ40A | ISMB16CA | SMBJ16CA | ISMB78CA | SMBJ78CA | ISR139-600 | 1N4005 |
| ISMA40CA | SMAJ40CA | ISMB16CAT3 | SMBJ16CA | ISMB78CAT3 | SMBJ78CA | ISR139-800 | 1N4006 |
| ISMA40CAT3 | SMAJ40CA | ISMB170A | SMBJ170A | ISMB8.0A | SMBJ8.0A | ISR153-050 | PR1001 |
| ISMA43A | SMAJ43A | ISMB170AT3 | SMBJ170A | ISMB8.0AT3 | SMBJ8.0A | ISR153-100 | PR1002 |
| ISMA43AT3 | SMAJ43A | ISMB17A | SMBJ17A | ISMB8.5A | SMBJ8.5A | ISR153-1000 | PR1007G |
| ISMA43CA | SMAJ43CA | ISMB17AT3 | SMBJ17A | ISMB8.5AT3 | SMBJ8.5A | ISR153-200 | PR1003 |
| ISMA43CAT3 | SMAJ43CA | ISMB17CA | SMBJ17CA | ISMB85A | SMBJ85A | ISR153-400 | PR1004 |
| ISMA45A | SMAJ45A | ISMB17CAT3 | SMBJ17CA | ISMB85AT3 | SMBJ85A | ISR153-50 | PR1001 |
| ISMA45AT3 | SMAJ45A | ISMB18A | SMBJ18A | ISMB9.0A | SMBJ9.0A | ISR153-600 | PR1005 |
| ISMA45CA | SMAJ45CA | ISMB18AT3 | SMBJ18A | ISMB9.0AT3 | SMBJ9.0A | ISR153-800 | PR1006G |
| ISMA45CAT3 | SMAJ45CA | ISMB18CA | SMBJ18CA | ISMB90A | SMBJ90A | ISR154-050 | S1A |
| ISMA48A | SMAJ48A | ISMB18CAT3 | SMBJ18CA | ISMB90AT3 | SMBJ90A | ISR154-100 | S1B |
| ISMA48AT3 | SMAJ48A | ISMB20A | SMBJ20A | ISMC10A | SMCJ10A | ISR154-1000 | S1M |
| ISMA48CA | SMAJ48CA | ISMB20AT3 | SMBJ20A | ISMC10AT3 | SMCJ10A | ISR154-200 | S1D |
| ISMA48CAT3 | SMAJ48CA | ISMB20CA | SMBJ20CA | ISMC11A | SMCJ11A | ISR154-400 | S1G |
| ISMA5.0A | SMAJ5.0A | ISMB20CAT3 | SMBJ20CA | ISMC11AT3 | SMCJ11A | ISR154-50 | S1A |
| ISMA5.0AT3 | SMAJ5.0A | ISMB22A | SMBJ22A | ISMC12A | SMCJ12A | ISR154-600 | S1J |
| ISMA51A | SMAJ51A | ISMB22AT3 | SMBJ22A | ISMC12AT3 | SMCJ12A | ISR154-800 | S1K |
| ISMA51AT3 | SMAJ51A | ISMB22CA | SMBJ22CA | ISMC13A | SMCJ13A | ISR156-050 | RS1A |
| ISMA51CA | SMAJ51CA | ISMB22CAT3 | SMBJ22CA | ISMC13AT3 | SMCJ13A | ISR156-100 | RS1B |
| ISMA51CAT3 | SMAJ51CA | ISMB24A | SMBJ24A | ISMC14A | SMCJ14A | ISR156-1000 | RS1M |
| ISMA54A | SMAJ54A | ISMB24AT3 | SMBJ24A | ISMC14AT3 | SMCJ14A | ISR156-200 | RS1D |
| ISMA54AT3 | SMAJ54A | ISMB24CA | SMBJ24CA | ISMC15A | SMCJ15A | ISR156-400 | RS1G |
| ISMA54CA | SMAJ54CA | ISMB24CAT3 | SMBJ24CA | ISMC15AT3 | SMCJ15A | ISR156-50 | RS1A |
| ISMA54CAT3 | SMAJ54CA | ISMB26A | SMBJ26A | ISMC16A | SMCJ16A | ISR156-600 | RS1J |
| ISMA58A | SMAJ58A | ISMB26AT3 | SMBJ26A | ISMC16AT3 | SMCJ16A | ISR156-800 | RS1K |
| ISMA58AT3 | SMAJ58A | ISMB26CA | SMBJ26CA | ISMC17A | SMCJ17A | ISR159-050 | US1A |
| ISMA58CA | SMAJ58CA | ISMB26CAT3 | SMBJ26CA | ISMC17AT3 | SMCJ17A | ISR159-100 | US1B |
| ISMA58CAT3 | SMAJ58CA | ISMB28A | SMBJ28A | ISMC18A | SMCJ18A | ISR159-1000 | US1M |
| ISMA6.0AT3 | SMAJ6.0A | ISMB28AT3 | SMBJ28A | ISMC18AT3 | SMCJ18A | ISR159-200 | US1D |
| ISMA6.5A | SMAJ6.0A | ISMB28CA | SMBJ28CA | ISMC20A | SMCJ20A | ISR159-400 | US1G |
| ISMA6.5AT3 | SMAJ6.5A | ISMB28CAT3 | SMBJ28CA | ISMC20AT3 | SMCJ20A | ISR159-50 | US1A |
| ISMA60A | SMAJ6.5A | ISMB30A | SMBJ30A | ISMC22A | SMCJ22A | ISR159-600 | US1J |
| ISMA60AT3 | SMAJ60A | ISMB30AT3 | SMBJ30A | ISMC22AT3 | SMCJ22A | ISR159-800 | US1K |
| ISMA60CA | SMAJ60A | ISMB30CA | SMBJ30CA | ISMC24A | SMCJ24A | ISR35-050A | 1N4001 |
| ISMA60CAT3 | SMAJ60CA | ISMB30CAT3 | SMBJ30CA | ISMC24AT3 | SMCJ24A | ISR35-1000A | 1N4007 |
| ISMA64A | SMAJ60CA | ISMB33A | SMBJ33A | ISMC26A | SMCJ26A | ISR35-100A | 1N4002 |
| ISMA64AT3 | SMAJ64A | ISMB33AT3 | SMBJ33A | ISMC26AT3 | SMCJ26A | ISR35-200A | 1N4003 |
| ISMA64CA | SMAJ64A | ISMB33CA | SMBJ33CA | ISMC28A | SMCJ28A | ISR35-400A | 1N4004 |
| ISMA64CAT3 | SMAJ64CA | ISMB33CAT3 | SMBJ33CA | ISMC28AT3 | SMCJ28A | ISR35-50A | 1N4001 |
| ISMA7.0A | SMAJ64CA | ISMB36A | SMBJ36A | ISMC30A | SMCJ30A | ISR35-600A | 1N4005 |
| ISMA7.0AT3 | SMAJ7.0A | ISMB36AT3 | SMBJ36A | ISMC30AT3 | SMCJ30A | ISR35-800A | 1N4006 |
| ISMA7.5A | SMAJ7.0A | ISMB36CA | SMBJ36CA | ISMC33A | SMCJ33A | 20BQ015 | B220 |
| ISMA7.5AT3 | SMAJ7.5A | ISMB36CAT3 | SMBJ36CA | ISMC33AT3 | SMCJ33A | 20BQ020 | B220 |
| ISMA70A | SMAJ7.5A | ISMB40A | SMBJ40A | ISMC36A | SMCJ36A | 20BQ030 | B230 |
| ISMA70AT3 | SMAJ70A | ISMB40AT3 | SMBJ40A | ISMC36AT3 | SMCJ36A | 20BQ040 | B240 |
| ISMA70CA | SMAJ70A | ISMB40CA | SMBJ40CA | ISMC40A | SMCJ40A | 20BQ050 | B250 |
| ISMA70CAT3 | SMAJ70CA | ISMB40CAT3 | SMBJ40CA | ISMC40AT3 | SMCJ40A | 20BQ060 | B260 |
| ISMA75A | SMAJ70CA | ISMB43A | SMBJ43A | ISMC43A | SMCJ43A | 20BQ070 | B270 |
| ISMA75AT3 | SMAJ75A | ISMB43AT3 | SMBJ43A | ISMC43AT3 | SMCJ43A | 20BQ080 | B280 |
| ISMA75CA | SMAJ75CA | ISMB43CA | SMBJ43CA | ISMC45A | SMCJ45A | 20BQ090 | B290 |
| ISMA75CAT3 | SMAJ75CA | ISMB43CAT3 | SMBJ43CA | ISMC45AT3 | SMCJ45A | 20BQ100 | B2100 |
| ISMA78A | SMAJ78A | ISMB45A | SMBJ45A | ISMC48A | SMCJ48A | 20CTQ045 | SBL2045CT |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-------------|----------------|-----------|----------------|------------|----------------|--------------|
| 20CTQ045S | SBG2045CT | 31DQ100 | SB3100 | B250 | B250 | BR86DL | KBP206G |
| 20TQ045S | SBG2045CT | 32CTQ030 | SBL3030CT | B250A | B250A | BR88DL | KBP208G |
| 25CTQ045 | SBL3045CT | 32CTQ030S | SBG3030CT | B250C1000G | W04G | BT131-600 | T08M3F-600A |
| 25CTQ045S | SBG3050CT | 3N246 | KBP005G | B250C1500G | W04G | BT131-800 | T08M3F-800A |
| 2A01 | LT2A01 | 3N247 | KBP01G | B250C800DM | DF04M | BT134-600E | T4M10F800FSS |
| 2A01G | LT2A01G | 3N247-M | KBP01G | B250C800G | W04G | BT136-600 | T4M3F600B |
| 2A02 | LT2A02 | 3N248 | KBP02G | B260 | B260 | BT136-600E | T4M3F-600B |
| 2A02G | LT2A02G | 3N248-M | KBP02G | B260A | B260A | BT136-800E | T4M3F-800B |
| 2A03 | LT2A03 | 3N249 | KBP04G | B270 | B270 | BT137-600 | T8M25F600B |
| 2A03G | LT2A03G | 3N249-M | KBP04G | B280 | B280 | BT137-600E | T8M5F-600B |
| 2A04 | LT2A04 | 3N250 | KBP06G | B290 | B290 | BT137-800E | T8M5F-800B |
| 2A04G | LT2A04G | 3N250-M | KBP06G | B2S | HD02 | BT138-600 | T12M25F600B |
| 2A05 | LT2A05 | 3N251 | KBP08G | B3100 | B3100 | BT138-600 | T12M25F600B |
| 2A05G | LT2A05G | 3N251-M | KBP08G | B320 | B320 | BT138-600 | T12M25F600B |
| 2A06 | LT2A06 | 3N252 | KBP10G | B320A | B320A | BT138-600 | T12M25F600B |
| 2A06G | LT2A06G | 3N252-M | KBP10G | B320B | B320B | BT139-600 | T16M25F600B |
| 2A07 | LT2A07 | 3N253 | KBP2005G | B330 | B330 | BT139-600 | T16M25F600B |
| 2A07G | LT2A07G | 3N254 | KBP201G | B330A | B330A | BT139-600 | T16M25F600B |
| 2KBB2005R | KBP2005G | 3N254-M | KBP201G | B330B | B330B | BT151-500R | S12M15-800B |
| 2KBB201R | KBP201G | 3N255 | KBP202G | B340 | B340 | BT151-650R/800 | S12M15-800B |
| 2KBB202R | KBP202G | 3N255-M | KBP202G | B340A | B340A | BT169B | S08M02-200A |
| 2KBB204R | KBP204G | 3N256 | KBP204G | B340B | B340B | BT169D | S08M02-400A |
| 2KBB206R | KBP206G | 3N256-M | KBP204G | B350 | B350 | BT169E/169G | S08M02-600A |
| 2KBB208R | KBP208G | 3N257 | KBP206G | B350A | B350A | BTB/A08-600C | T8M25F600B |
| 2KBB210R | KBP210G | 3N257-M | KBP206G | B350B | B350B | BTB/A12-600B | T12M50F600B |
| 2KBP005G | KBP2005G | 3N258 | KBP208G | B360 | B360 | BTB/A12-600BW | T12M35T600B |
| 2KBP005M | KBP2005G | 3N258-M | KBP208G | B360A | B360A | BTB/A12-600BW | T12M35T600B |
| 2KBP01G | KBP201G | 3N259 | KBP210G | B360B | B360B | BTB/A12-600C | T12M25F600B |
| 2KBP01M | KBP201G | 40CPQ045 | SBL6045PT | B370 | B370 | BTB/A16-600BW | T16M35T600B |
| 2KBP02G | KBP202G | 40CPQ060 | SBL6060PT | B380 | B380 | BTB/A16-600BW | T16M35T600B |
| 2KBP02M | KBP202G | 47CPQ020 | SBL6030PT | B380C1000G | W06G | BTB/A16-600C | T16M25F600B |
| 2KBP04G | KBP204G | 50SQ080 | SB580 | B380C1500G | W06G | BTB04-600SL | T4M3F-600B |
| 2KBP04M | KBP204G | 50SQ100 | SB5100 | B380C800DM | DF06M | BTB04-600SL | T4M3F-600B |
| 2KBP06G | KBP206G | 5817SMJ | B120B | B380C800G | W06G | BTB08-600BW | T8M50T-600B |
| 2KBP06M | KBP206G | 5818SMJ | B130B | B390 | B390 | BTB08-600C | T8M25F-600B |
| 2KBP08G | KBP208G | 5819SMJ | B140B | B40C1000G | W01G | BTB08-600TW | T8M5T-600B |
| 2KBP08M | KBP208G | 5820SMJ | B320 | B40C1500G | W01G | BTB08-800BW | T8M50T-800B |
| 2KBP10G | KBP210G | 5821SMJ | B330 | B40C800DM | DF01M | BTB08-800C | T8M25F-800B |
| 2KBP10M | KBP210G | 5822SMJ | B340 | B40C800G | W01G | BTB08-800TW | T8M5T-800B |
| 2KBP2005 | KBP2005G | 60S05 | LT6A01 | B4S | HD04 | BVY28-150 | SF30CG |
| 2KBP201 | KBP201G | 60S1 | LT6A02 | B520C | B520C | BVY28-200 | SF30DG |
| 2KBP202 | KBP202G | 60S10 | LT6A07 | B530C | B530C | BY359-1500S | DD0515 |
| 2KBP204 | KBP204G | 60S2 | LT6A03 | B540C | B540C | BY527 | 1N4006G |
| 2KBP206 | KBP206G | 60S4 | LT6A04 | B550C | B550C | BYD11D | D3G |
| 2KBP208 | KBP208G | 60S5 | LT6A05 | B560C | B560C | BYD11G | D4G |
| 2KBP210 | KBP210G | 60S6 | LT6A05 | B6S | HD04 | BYD11J | D5G |
| 2N5060 | S08U25-100A | 60S8 | LT6A06 | B80C1000G | W02G | BYD11K | D6G |
| 2N5061 | S08U25-200A | 67CPQ020 | SBL6030PT | B80C1500G | W02G | BYD11M | D7G |
| 2N5062 | S08U25-400A | 6A01 | LT6A01 | B80C800DM | DF02M | BYD13D | 1N4003G |
| 2N5064 | S08U25-600A | 6A02 | LT6A02 | B80C800G | W02G | BYD13G | 1N4004G |
| 2W005 | 2W005G | 6A03 | LT6A03 | BAS11 | D4G | BYD13J | 1N4005G |
| 2W005G | 2W005G | 6A04 | LT6A04 | BAS12 | D4G | BYD13K | 1N4006G |
| 2W01 | 2W01G | 6A05 | LT6A05 | BAT49 | SB1100 | BYD13M | 1N4007G |
| 2W01G | 2W01G | 6A06 | LT6A06 | BR1505 | GBPC1500S | BYD31D | PR1003G |
| 2W02 | 2W02G | 6A07 | LT6A07 | BR1505W | GBPC15005W | BYD31G | PR1004G |
| 2W02G | 2W02G | 6A1 | LT6A02 | BR151 | GBPC1501 | BYD31J | PR1005G |
| 2W04 | 2W04G | 6A10 | LT6A07 | BR1510 | GBPC1510 | BYD31K | PR1006G |
| 2W04G | 2W04G | 6A2 | LT6A03 | BR1510W | GBPC1510W | BYD31M | PR1007G |
| 2W06 | 2W06G | 6A4 | LT6A04 | BR151W | GBPC1501W | BYD33D | PR2003G |
| 2W06G | 2W06G | 6A6 | LT6A05 | BR152 | GBPC1502 | BYD33D | PR2003G |
| 2W08 | 2W08G | 6A8 | LT6A06 | BR152W | GBPC1502W | BYD33G | PR2004G |
| 2W08G | 2W08G | 6TQ045 | SBL845 | BR154 | GBPC1504 | BYD33J | PR2004G |
| 2W10 | 2W10G | 6TQ045S | SBG1045CT | BR154W | GBPC1504W | BYD33K | PR2005G |
| 2W10G | 2W10G | 8TQ100 | SBL8100 | BR156 | GBPC1506 | BYD33J | PR2005G |
| 30BF10 | ES3B | 9TQ015 | SBL1030 | BR156W | GBPC1506W | BYD33K | PR2006G |
| 30BF20 | ES3D | B100 | B1100 | BR158 | GBPC1508 | BYD33K | PR2006G |
| 30BQ015 | B320 | B1100 | B1100 | BR158W | GBPC1508W | BYD33M | PR2007G |
| 30BQ020 | B320 | B1100B | B1100B | BR2505 | GBPC2500S | BYD33M | PR2007G |
| 30BQ030 | B330 | B1100LB | B1100LB | BR2505W | GBPC25005W | BYD57M | UF1007 |
| 30BQ040 | B340 | B120 | B120 | BR251 | GBPC2501 | BYD73A | SF20AG |
| 30BQ050 | B350 | B120B | B120B | BR2510 | GBPC2510 | BYD73B | SF20BG |
| 30BQ060 | B360 | B125C1000G | W02G | BR2510W | GBPC2510W | BYD73C | SF20CG |
| 30BQ070 | B370 | B125C1500G | W02G | BR251W | GBPC2501W | BYD73D | SF20DG |
| 30BQ080 | B380 | B125C800DM | DF02M | BR252 | GBPC2502 | BYD73E | SF20FG |
| 30BQ090 | B390 | B125C800G | W02G | BR252W | GBPC2502W | BYD73F | SF20GG |
| 30BQ100 | B3100 | B130 | B130 | BR254 | GBPC2504 | BYD73G | SF20JG |
| 30CPQ045 | SBL3045PT | B130B | B130B | BR254W | GBPC2504W | BYG20D | ES2DA |
| 30CPQ060 | SBL3060PT | B130B | B130B | BR256 | GBPC2506 | BYG22A | ES2AA |
| 30CTQ045 | SBL3045CT | B130L | B130L | BR256W | GBPC2506W | BYG22B | ES2BA |
| 30CTQ045S | SBG3050CT | B140 | B140 | BR258 | GBPC2508 | BYG22D | ES2DA |
| 30CTQ060 | SBL3060CT | B140B | B140B | BR258W | GBPC2508W | BYG50D | ES2DA |
| 30CTQ060S | SBG3060CT | B140HB | B140HB | BR3505 | GBPC3500S | BYG60D | ES2DA |
| 30S1 | 1N5401 | B150 | B150 | BR3505W | GBPC35005W | BYG70D | ES1D |
| 30S10 | 1N5408 | B150B | B150B | BR351 | GBPC3501 | BYG70G | ES1G |
| 30S2 | 1N5402 | B160 | B160 | BR3510 | GBPC3510 | BYG70J | ES1J |
| 30S3 | 1N5404 | B160B | B160B | BR3510W | GBPC3510W | BYG80A | ES2AA |
| 30S4 | 1N5404 | B170 | B170 | BR351W | GBPC3501W | BYG80B | ES2BA |
| 30S5 | 1N5406 | B170B | B170B | BR352 | GBPC3502 | BYG80C | ES2CA |
| 30S6 | 1N5406 | B180 | B180 | BR352W | GBPC3502W | BYG80D | ES2DA |
| 30S8 | 1N5407 | B180B | B180B | BR354 | GBPC3504 | BYM07-100 | US1B |
| 31DQ0100 | SB3100 | B190 | B190 | BR354W | GBPC3504W | BYM07-150 | US1D |
| 31DQ015 | SB320 | B190B | B190B | BR356 | GBPC3506 | BYM07-200 | US1D |
| 31DQ020 | SB320 | B1S | HD01 | BR356W | GBPC3506W | BYM07-300 | US1G |
| 31DQ030 | SB330 | B2100 | B2100 | BR358 | GBPC3508 | BYM07-400 | US1G |
| 31DQ04 | SB340 | B220 | B220 | BR358W | GBPC3508W | BYM07-50 | US1A |
| 31DQ040 | SB340 | B220A | B220A | BR805DL | KBP2005G | BYM12-100 | US1B |
| 31DQ05 | SB350 | B230 | B230 | BR810DL | KBP210G | BYM12-150 | US1D |
| 31DQ050 | SB350 | B230A | B230A | BR81DL | KBP201G | BYM12-200 | US1D |
| 31DQ06 | SB360 | B240 | B240 | BR82DL | KBP202G | BYM12-300 | US1G |
| 31DQ10 | SB3100 | B240A | B240A | BR84DL | KBP204G | BYM12-400 | US1G |

| Competitor P/N | LT P/N |
|----------------|-------------|
| BYM12-50 | US1A |
| BYM13-20 | B120 |
| BYM13-30 | B130 |
| BYM13-40 | B140 |
| BYM13-50 | B150 |
| BYM13-60 | B160 |
| BYM26A | SF20DG |
| BYM26B | SF20GG |
| BYM26C | SF20JG |
| BYM26D | SF20KG |
| BYM26E | SF30MG |
| BYM36A | SF30DG |
| BYM36B | SF30GG |
| BYM36C | SF30JG |
| BYM36D | SF30KG |
| BYM36E | SF30MG |
| BYM56A | 1N5402 |
| BYM56B | 1N5404 |
| BYM56C | 1N5406 |
| BYM56D | 1N5407 |
| BYM56E | 1N5408 |
| BYM95A | PR2003G |
| BYM95B | PR2004G |
| BYM95C | PR2005G |
| BYM95D | PR2006G |
| BYM95E | PR2007G |
| BYM99 | SF20JG |
| BYM99 | SF20JG |
| BYQ28EB-100 | MURB1610CT |
| BYQ28EB-150 | MURB1620CT |
| BYQ28EB-200 | MURB1620CT |
| BYQ30EB-100 | MURB1610CT |
| BYQ30EB-150 | MURB1620CT |
| BYQ30EB-200 | MURB1620CT |
| BY10-25 | B130 |
| BY10-35 | B140 |
| BY10-45 | B150 |
| BYT16-200 | STPRF1620CT |
| BYT16-300 | STPRF1630CT |
| BYT16-400 | STPRF1640CT |
| BYT16P-200 | STPRF1620CT |
| BYT16P-300 | STPRF1630CT |
| BYT16P-400 | STPRF1640CT |
| BYT43A | SF10AG |
| BYT43B | SF10BG |
| BYT43D | SF10DG |
| BYT43G | SF10GG |
| BYT43J | SF10JG |
| BYT43K | UF1006 |
| BYT43M | UF1007 |
| BYT44A | UF1501S |
| BYT44B | UF1502S |
| BYT44C | UF1503S |
| BYT44D | UF1503S |
| BYT52A | SF10AG |
| BYT52B | SF10BG |
| BYT52D | SF10DG |
| BYT52G | SF10GG |
| BYT52J | SF10JG |
| BYT52K | SF10KG |
| BYT52M | SF10MG |
| BYT53A | SF20AG |
| BYT53B | SF20BG |
| BYT53C | SF20CG |
| BYT53D | SF20DG |
| BYT53F | SF20FG |
| BYT53G | SF20GG |
| BYT54A | SF10AG |
| BYT54B | SF10BG |
| BYT54D | SF10DG |
| BYT54G | SF10GG |
| BYT54J | SF10JG |
| BYT54K | SF10KG |
| BYT54M | SF10MG |
| BYT56A | SF30AG |
| BYT56B | SF30BG |
| BYT56D | SF30DG |
| BYT56G | SF30GG |
| BYT56J | SF30JG |
| BYT56K | SF30KG |
| BYT56M | SF30MG |
| BYT77 | UF3006 |
| BYT78 | UF3007 |
| BYV10-20 | SB120 |
| BYV10-20A | SB120 |
| BYV10-30 | SB130 |
| BYV10-40 | SB140 |
| BYV10-50 | SB150 |
| BYV10-60 | SB160 |
| BYV2100 | SF20BG |
| BYV26A | SF10DG |
| BYV26B | SF10GG |
| BYV26C | SF10JG |
| BYV26D | SF10KG |
| BYV26E | SF10MG |
| BYV27100 | SF20BG |
| BYV27-100 | SF20BG |
| BYV27150 | SF20CG |
| BYV27-150 | SF20CG |
| BYV27200 | SF20DG |

| Competitor P/N | LT P/N |
|----------------|-------------|
| BYV27-200 | SF20DG |
| BYV27-300 | SF20FG |
| BYV27-400 | SF20GG |
| BYV2750 | SF20AG |
| BYV27-50 | SF20AG |
| BYV27-500 | SF20HG |
| BYV27-600 | SF20JG |
| BYV28-100 | SF30BG |
| BYV28-150 | SF30CG |
| BYV28-200 | SF30DG |
| BYV28-300 | SF30FG |
| BYV28-400 | SF39GG |
| BYV28-50 | SF30AG |
| BYV28-500 | SF30HG |
| BYV28-600 | SF30JG |
| BYV36A | UF1503 |
| BYV36B | UF1504 |
| BYV36C | UF1505 |
| BYV36D | UF1506 |
| BYV36E | UF1507 |
| BYV79EB-100 | MURB1610CT |
| BYV79EB-150 | MURB1620CT |
| BYV79EB-200 | MURB1620CT |
| BYV95A | PR1503G |
| BYV95B | PR1504G |
| BYV95C | PR1505G |
| BYV95D | PR1506G |
| BYV95E | PR1507G |
| BYV96D | UF1506S |
| BYV96E | UF1507S |
| BYV99 | SF10JG |
| BYVB32-100 | MURB1610CT |
| BYVB32-150 | MURB1620CT |
| BYVB32-200 | MURB1620CT |
| BYVB32-50 | MURB1610CT |
| BYW100-100 | SF20BG |
| BYW100-150 | SF20CG |
| BYW100-200 | SF20DG |
| BYW100-50 | SF20AG |
| BYW178 | UF3006 |
| BYW29EB-100 | MURB1610CT |
| BYW29EB-150 | MURB1620CT |
| BYW29EB-200 | MURB1620CT |
| BYW51-200 | STPRF1620CT |
| BYW54 | 1N4005G |
| BYW55 | 1N4006G |
| BYW56 | 1N4007G |
| BYW95A | SF30DG |
| BYW95B | SF30GG |
| BYW95C | SF30JG |
| BYW95D | SF30KG |
| BYW95E | SF30MG |
| BYW98-100 | SF30BG |
| BYW98-150 | SF30CG |
| BYW98-200 | SF30DG |
| BYW98-50 | SF30AG |
| BZW04-10 | SA10A |
| BZW04-102 | SA100A |
| BZW04-102B | SA100CA |
| BZW04-10B | SA10CA |
| BZW04-128 | SA130A |
| BZW04-128B | SA130CA |
| BZW04-13 | SA13A |
| BZW04-13B | SA13CA |
| BZW04-15 | SA15A |
| BZW04-154 | SA150A |
| BZW04-154B | SA150CA |
| BZW04-15B | SA15CA |
| BZW04-171 | SA170A |
| BZW04-171B | SA170CA |
| BZW04-19 | SA18A |
| BZW04-19B | SA18CA |
| BZW04-20 | SA20A |
| BZW04-20B | SA20CA |
| BZW04-23 | SA24A |
| BZW04-23B | SA24CA |
| BZW04-26 | SA26A |
| BZW04-26B | SA26CA |
| BZW04-28 | SA28A |
| BZW04-28B | SA28CA |
| BZW04-31 | SA30A |
| BZW04-31B | SA30CA |
| BZW04-33 | SA33A |
| BZW04-33B | SA33CA |
| BZW04-40 | SA40A |
| BZW04-40B | SA40CA |
| BZW04-48 | SA48A |
| BZW04-48B | SA48CA |
| BZW04-58 | SA58A |
| BZW04-58B | SA58CA |
| BZW04-5V8 | SA5.0A |
| BZW04-5V8B | SA5.0CA |
| BZW04-6V4 | SA6.5A |
| BZW04-6V4B | SA6.5CA |
| BZW04-70 | SA64A |
| BZW04-70B | SA64CA |
| BZW04-85 | SA85A |
| BZW04-85B | SA85CA |
| BZW04-8V5 | SA8.5A |
| BZW04-8V5B | SA8.5CA |

| Competitor P/N | LT P/N |
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| BZW06-10 | P6KE12A |
| BZW06-102 | P6KE120A |
| BZW06-102B | P6KE120CA |
| BZW06-10B | P6KE12CA |
| BZW06-128 | P6KE150A |
| BZW06-128B | P6KE150CA |
| BZW06-13 | P6KE15A |
| BZW06-13B | P6KE15CA |
| BZW06-15 | P6KE20A |
| BZW06-154 | P6KE180A |
| BZW06-154B | P6KE180CA |
| BZW06-15B | P6KE20CA |
| BZW06-171 | P6KE200A |
| BZW06-171B | P6KE200CA |
| BZW06-19 | P6KE22A |
| BZW06-19B | P6KE22CA |
| BZW06-20 | P6KE24A |
| BZW06-20B | P6KE24CA |
| BZW06-23 | P6KE27A |
| BZW06-23B | P6KE27CA |
| BZW06-26 | P6KE30A |
| BZW06-26B | P6KE30CA |
| BZW06-28 | P6KE33A |
| BZW06-28B | P6KE33CA |
| BZW06-31 | P6KE36A |
| BZW06-31B | P6KE36CA |
| BZW06-33 | P6KE39A |
| BZW06-33B | P6KE39CA |
| BZW06-40 | P6KE47A |
| BZW06-40B | P6KE47CA |
| BZW06-48 | P6KE56A |
| BZW06-48B | P6KE56CA |
| BZW06-58 | P6KE68A |
| BZW06-58B | P6KE68CA |
| BZW06-5V8 | P6KE6.8A |
| BZW06-5V8B | P6KE6.8CA |
| BZW06-6V4 | P6KE7.5A |
| BZW06-6V4B | P6KE7.5CA |
| BZW06-70 | P6KE82A |
| BZW06-70B | P6KE82CA |
| BZW06-85 | P6KE100A |
| BZW06-85B | P6KE100CA |
| BZW06-8V5 | P6KE10A |
| BZW06-8V5B | P6KE10CA |
| CBR10-010 | GBPC1501 |
| CBR10-010P | GBPC1501 |
| CBR10-010PW | GBPC1501 |
| CBR10-020 | GBPC1502 |
| CBR10-020P | GBPC1502 |
| CBR10-020PW | GBPC1502 |
| CBR10-040 | GBPC1504 |
| CBR10-040P | GBPC1504 |
| CBR10-040PW | GBPC1504 |
| CBR10-060 | GBPC1506 |
| CBR10-060P | GBPC1506 |
| CBR10-060PW | GBPC1506 |
| CBR10-080 | GBPC1508 |
| CBR10-080P | GBPC1508 |
| CBR10-080PW | GBPC1508 |
| CBR1-010 | W01G |
| CBR10-100 | GBPC1510 |
| CBR10-100P | GBPC1510 |
| CBR10-100PW | GBPC1510 |
| CBR1-020 | W02G |
| CBR1-040 | W04G |
| CBR1-060 | W06G |
| CBR1-080 | W08G |
| CBR1-100 | W10G |
| CBR1-D010 | DF01M |
| CBR1-D010S | DF01S |
| CBR1-D020 | DF02M |
| CBR1-D020S | DF02S |
| CBR1-D040 | DF04M |
| CBR1-D040S | DF04S |
| CBR1-D060 | DF06M |
| CBR1-D060S | DF06S |
| CBR1-D080 | DF08M |
| CBR1-D080S | DF08S |
| CBR1-D100 | DF10M |
| CBR1-D100S | DF10S |
| CBR1-L010M | KBP01G |
| CBR1-L020M | KBP02G |
| CBR1-L040M | KBP04G |
| CBR1-L060M | KBP06G |
| CBR1-L080M | KBP08G |
| CBR1-L100M | KBP10G |
| CBR2-010 | 2W01G |
| CBR2-020 | 2W02G |
| CBR2-040 | 2W04G |
| CBR2-060 | 2W06G |
| CBR2-080 | 2W08G |
| CBR2-100 | 2W10G |
| CBR25-010 | GBPC2501 |
| CBR25-010P | GBPC2501 |
| CBR25-010PW | GBPC2501W |
| CBR25-020 | GBPC2502 |
| CBR25-020P | GBPC2502 |
| CBR25-020PW | GBPC2502W |
| CBR25-040 | GBPC2504 |
| CBR25-040P | GBPC2504 |

| Competitor P/N | LT P/N |
|----------------|-----------|
| CBR25-040PW | GBPC2504W |
| CBR25-060 | GBPC2506 |
| CBR25-060P | GBPC2506 |
| CBR25-060PW | GBPC2506W |
| CBR25-080 | GBPC2508 |
| CBR25-080P | GBPC2508 |
| CBR25-080PW | GBPC2508W |
| CBR25-100 | GBPC2510 |
| CBR25-100P | GBPC2510 |
| CBR25-100PW | GBPC2510W |
| CBR2-L010M | KBP201G |
| CBR2-L020M | KBP202G |
| CBR2-L040M | KBP204G |
| CBR2-L060M | KBP206G |
| CBR2-L080M | KBP208G |
| CBR2-L100M | KBP210G |
| CBR35-010 | GBPC3501 |
| CBR35-010P | GBPC3501 |
| CBR35-010PW | GBPC3501W |
| CBR35-020 | GBPC3502 |
| CBR35-020P | GBPC3502 |
| CBR35-020PW | GBPC3502W |
| CBR35-040 | GBPC3504 |
| CBR35-040P | GBPC3504 |
| CBR35-040PW | GBPC3504W |
| CBR35-060 | GBPC3506 |
| CBR35-060P | GBPC3506 |
| CBR35-060PW | GBPC3506W |
| CBR35-080 | GBPC3508 |
| CBR35-080P | GBPC3508 |
| CBR35-080PW | GBPC3508W |
| CBR35-100 | GBPC3510 |
| CBR35-100P | GBPC3510 |
| CBR35-100PW | GBPC3510W |
| CBR4-L010 | GBU401 |
| CBR4-L020 | GBU402 |
| CBR4-L040 | GBU404 |
| CBR4-L060 | GBU406 |
| CBR4-L080 | GBU408 |
| CBR4-L100 | GBU410 |
| CBR6-L010 | GBU601 |
| CBR6-L020 | GBU602 |
| CBR6-L040 | GBU604 |
| CBR6-L060 | GBU606 |
| CBR6-L080 | GBU608 |
| CBR6-L100 | GBU610 |
| CBR6M-L010 | GBU601 |
| CBR6M-L020 | GBU602 |
| CBR6M-L040 | GBU604 |
| CBR6M-L060 | GBU606 |
| CBR6M-L080 | GBU608 |
| CBR6M-L100 | GBU610 |
| CBR8M-L010 | GBU801 |
| CBR8M-L020 | GBU802 |
| CBR8M-L040 | GBU804 |
| CBR8M-L060 | GBU806 |
| CBR8M-L080 | GBU808 |
| CBR8M-L100 | GBU810 |
| CBRHD-02 | HD02 |
| CBRHD-04 | HD04 |
| CBRHD-06 | HD06 |
| CMR1-02 | S1DB |
| CMR1-02M | S1D |
| CMR1-04 | S1GB |
| CMR1-04M | S1G |
| CMR1-06 | S1JB |
| CMR1-06M | S1J |
| CMR1-10 | S1MB |
| CMR1-10M | S1M |
| CMR1F-02M | RS1D |
| CMR1F-04M | RS1G |
| CMR1F-06M | RS1J |
| CMR1F-10M | RS1M |
| CMR1U-01 | ES2B |
| CMR1U-01M | US1B |
| CMR1U-02 | ES2C |
| CMR1U-02M | US1D |
| CMR1U-04M | US1G |
| CMR1U-06M | US1J |
| CMR2-02 | S3DB |
| CMR2-04 | S3GB |
| CMR2-06 | S3JB |
| CMR2-10 | S3MB |
| CMR2U-01 | ES2B |
| CMR2U-02 | ES2C |
| CMR3-02 | S3D |
| CMR3-04 | S3G |
| CMR3-06 | S3J |
| CMR3-10 | S3M |
| CMR3U-01 | ES3B |
| CMR3U-02 | ES3C |
| CMSH1-100 | B1100LB |
| CMSH1-100M | B1100 |
| CMSH1-20 | B120B |

| Competitor | P/N | LT | P/N | Competitor | P/N | LT | P/N | Competitor | P/N | LT | P/N | Competitor | P/N | LT | P/N |
|------------|---------|----|-----|------------|---------|----|-----|------------|------------|----|-----|------------|---------|----|-----|
| CMSH1-20M | B120 | | | CR1F-020 | PR1503 | | | D10SC4M | MBR1045CT | | | EGF1C | US1D | | |
| CMSH1-30 | B130LB | | | CR1F-040 | PR1504 | | | D1FH3 | B330A | | | EGF1D | US1D | | |
| CMSH1-30M | B130 | | | CR1F-060 | PR1505 | | | D1FM3 | B330A | | | EGL20D | UG2003 | | |
| CMSH1-40 | B140B | | | CR1F-080 | PR1506G | | | D1FP3 | B230A | | | EGL34A | US1A | | |
| CMSH1-40M | B140 | | | CR1F-100 | PR1507G | | | D1FS4 | B140 | | | EGL34B | US1B | | |
| CMSH1-50 | B150B | | | CR2-010 | LT2A02 | | | D1NS4 | SB140 | | | EGL34C | US1D | | |
| CMSH1-50M | B150 | | | CR2-020 | LT2A03 | | | D1NS6 | SB160 | | | EGL34D | US1D | | |
| CMSH1-60 | B160B | | | CR2-040 | LT2A04 | | | D1SF4A | SB240A | | | EGL34F | US1G | | |
| CMSH1-60M | B160 | | | CR2-060 | LT2A05 | | | D1SF6 | B160 | | | EGL34G | US1G | | |
| CMSH1-70 | B170B | | | CR2-080 | LT2A06 | | | D25XB20 | GBJ2502 | | | EGL41A | US1A | | |
| CMSH1-70M | B170 | | | CR2-100 | LT2A07 | | | D25XB60 | GBJ2506 | | | EGL41B | US1B | | |
| CMSH1-80 | B180B | | | CR2300SA | TB2300L | | | D25XB80 | GBJ2508 | | | EGL41C | US1D | | |
| CMSH1-80M | B180 | | | CR2300SB | TB2300M | | | D2FS4 | B340 | | | EGL41D | US1D | | |
| CMSH1-90 | B190B | | | CR2300SC | TB2300H | | | D2FS6 | B360 | | | EGL41F | US1G | | |
| CMSH1-90M | B190 | | | CR2600SA | TB2600L | | | D2S4M | SB340 | | | EGL41G | US1G | | |
| CMSH2-100 | B2100 | | | CR2600SB | TB2600M | | | D2S6M | SB360 | | | EGP10A | UG1001 | | |
| CMSH2-20 | B220 | | | CR2600SC | TB2600H | | | D3FP3 | B330 | | | EGP10B | UG1002 | | |
| CMSH2-30 | B230 | | | CR2F-010 | PR2002G | | | D3FS4A | B340 | | | EGP10C | UG1003 | | |
| CMSH2-40 | B240 | | | CR2F-020 | PR2003G | | | D3FS6A | B360 | | | EGP10D | UG1003 | | |
| CMSH2-50 | B250 | | | CR2F-040 | PR2004G | | | D3S4M | SB340 | | | EGP10F | UG1004 | | |
| CMSH2-60 | B260 | | | CR2F-060 | PR2005G | | | D3S6M | SB360 | | | EGP10G | UG1004 | | |
| CMSH2-70 | B270 | | | CR2F-080 | PR2006G | | | D3SB20 | KBJ402G | | | EGP10J | UG1006 | | |
| CMSH2-80 | B280 | | | CR2F-100 | PR2007G | | | D3SB60 | KBJ406G | | | EGP10K | UG1007 | | |
| CMSH2-90 | B290 | | | CR3-005 | 1N5400 | | | D3SB80 | KBJ408G | | | EGP20A | UG2001 | | |
| CMSH3-100 | B3100 | | | CR3-005GPP | 1N5400G | | | D3SBA20 | KBJ402G | | | EGP20B | UG2002 | | |
| CMSH3-20 | B320 | | | CR3-010 | 1N5401 | | | D3SBA60 | KBJ406G | | | EGP20C | UG2003 | | |
| CMSH3-30 | B330 | | | CR3-010GPP | 1N5401G | | | D4SB60L | GBJ606 | | | EGP20F | UG2004 | | |
| CMSH3-40 | B340 | | | CR3-020 | 1N5402 | | | D4SBS4 | KBJ4005G | | | EGP20G | UG2004 | | |
| CMSH3-50 | B350 | | | CR3-020GPP | 1N5402G | | | D4SBS6 | KBJ401G | | | EGP20J | UG2006 | | |
| CMSH3-60 | B360 | | | CR3-040 | 1N5404 | | | D5SB20 | GBJ602 | | | EGP20K | UG2007 | | |
| CMSH3-70 | B370 | | | CR3-040GPP | 1N5404G | | | D5SB60 | GBJ606 | | | EGP30A | UG3001 | | |
| CMSH3-80 | B380 | | | CR3-060 | 1N5406 | | | D5SB80 | GBJ608 | | | EGP30B | UG3002 | | |
| CMSH3-90 | B390 | | | CR3-060GPP | 1N5406G | | | DB101 | DF005M | | | EGP30C | UG3003 | | |
| CN5823 | SB520 | | | CR3-080 | 1N5407 | | | DB101S | DF005S | | | EGP30D | UG3003 | | |
| CN5824 | SB530 | | | CR3-080GPP | 1N5407G | | | DB102 | DF01M | | | EGP30F | UG3004 | | |
| CN5825 | SB540 | | | CR3-100 | 1N5408 | | | DB102S | DF01S | | | EGP30G | UG3004 | | |
| CPR1-010 | 1N5392 | | | CR3-100GPP | 1N5408G | | | DB103 | DF02M | | | EGP30J | UG3006 | | |
| CPR1-020 | 1N5393 | | | CR3100SA | TB3100L | | | DB103S | DF02S | | | EGP30K | UG3007 | | |
| CPR1-040 | 1N5395 | | | CR3100SB | TB3100M | | | DB104 | DF04M | | | ER1A | ES2A | | |
| CPR1-060 | 1N5397 | | | CR3100SC | TB3100H | | | DB104S | DF04S | | | ER1B | ES2B | | |
| CPR1-080 | 1N5398 | | | CR3500SA | TB3500L | | | DB105 | DF06M | | | ER1C | ES2C | | |
| CPR1-100 | 1N5399 | | | CR3500SB | TB3500M | | | DB105S | DF06S | | | ER1D | ES2D | | |
| CPR1F-010 | PR1502 | | | CR3500SC | TB3500H | | | DB106 | DF08M | | | ER1G | RS1GB | | |
| CPR1F-020 | PR1503 | | | CR3F-010 | PR3002 | | | DB106S | DF08S | | | ER1J | RS1JB | | |
| CPR1F-040 | PR1504 | | | CR3F-020 | PR3003 | | | DB107 | DF010M | | | ER3A | ES3A | | |
| CPR1F-060 | PR1505 | | | CR3F-040 | PR3004 | | | DB107S | DF010S | | | ER3B | ES3B | | |
| CPR1F-080 | PR1506G | | | CR3F-060 | PR3005 | | | DF005 | DF005M | | | ER3C | ES3C | | |
| CPR1F-100 | PR1507G | | | CR3F-080 | PR3006G | | | DF005M | DF005M | | | ER3D | ES3D | | |
| CR2-010 | LT2A02 | | | CR3F-100 | PR3007G | | | DF005S | DF005S | | | ER3G | ES3G | | |
| CR2-020 | LT2A03 | | | CR3U-010 | UF3002 | | | DF01 | DF01M | | | ER3J | RS3J | | |
| CR2-040 | LT2A04 | | | CR3U-020 | UF3003 | | | DF01M | DF01M | | | ER3K | RS3K | | |
| CR2-060 | LT2A05 | | | CR3U-040 | UF3004 | | | DF01S | DF01S | | | ER3M | RS3M | | |
| CR2-080 | LT2A06 | | | CR3U-060 | UF3005 | | | DF02 | DF02M | | | ERA81-002 | SB120 | | |
| CR2-100 | LT2A07 | | | CR3U-080 | UF3006 | | | DF02M | DF02M | | | ERA81-003 | SB130 | | |
| CPR2F-010 | PR2002G | | | CR3U-100 | UF3007 | | | DF02S | DF02S | | | ERA81-004 | SB150 | | |
| CPR2F-020 | PR2003G | | | CR5-010 | LT6A02 | | | DF04 | DF04M | | | ERA81-005 | SB150 | | |
| CPR2F-040 | PR2004G | | | CR5-020 | LT6A03 | | | DF04M | DF04M | | | ERA81-006 | SB160 | | |
| CPR2F-060 | PR2005G | | | CR5-040 | LT6A04 | | | DF04S | DF04S | | | ERA82-002 | SB120 | | |
| CPR2F-080 | PR2006G | | | CR5-060 | LT6A05 | | | DF06 | DF06M | | | ERA82-003 | SB130 | | |
| CPR2F-100 | PR2007G | | | CR5-080 | LT6A06 | | | DF06M | DF06M | | | ERA82-004 | SB140 | | |
| CPR3-010 | 1N5401 | | | CR5-100 | LT6A07 | | | DF06S | DF06S | | | ERA82-005 | SB150 | | |
| CPR3-020 | 1N5402 | | | CR5F-010 | PR6002 | | | DF08 | DF08M | | | ERA82-006 | SB160 | | |
| CPR3-040 | 1N5404 | | | CR5F-020 | PR6003 | | | DF08M | DF08M | | | ERA83-002 | SB120 | | |
| CPR3-060 | 1N5406 | | | CR5F-040 | PR6004 | | | DF08S | DF08S | | | ERA83-003 | SB130 | | |
| CPR3-080 | 1N5407 | | | CR5F-060 | PR6005 | | | DF10 | DF10M | | | ERA83-004 | SB140 | | |
| CPR3-100 | 1N5408 | | | CR5U-010 | PR6002 | | | DF10M | DF10M | | | ERA83-005 | SB150 | | |
| CPR3F-010 | PR3002 | | | CR5U-020 | PR6003 | | | DF10S | DF10S | | | ERA83-006 | SB160 | | |
| CPR3F-020 | PR3003 | | | CR5U-040 | PR6004 | | | DF10SC4M | MBRB1540CT | | | ERA84-009 | SB190 | | |
| CPR3F-040 | PR3004 | | | CR5U-060 | PR6005 | | | DF15005M | DF15005M | | | ERA85-009 | SB190 | | |
| CPR3F-060 | PR3005 | | | CR6A10GPP | LT6A07 | | | DF15005S | DF15005S | | | ERB81-002 | SB320 | | |
| CPR3F-080 | PR3006G | | | CR6A2GPP | LT6A03 | | | DF1501M | DF1501M | | | ERB81-003 | SB330 | | |
| CPR3F-100 | PR3007G | | | CR6A4GPP | LT6A04 | | | DF1501S | DF1501S | | | ERB81-004 | SB350 | | |
| CR0640SA | TB0640L | | | CR6A6GPP | LT6A05 | | | DF1502M | DF1502M | | | ERB81-005 | SB350 | | |
| CR0640SB | TB0640M | | | CR6A8GPP | LT6A06 | | | DF1502S | DF1502S | | | ERB81-006 | SB360 | | |
| CR0640SC | TB0640H | | | CR6AF1GPP | PR6002 | | | DF1504M | DF1504M | | | ERB83-002 | SB340 | | |
| CR0720SA | TB0720L | | | CR6AF2GPP | PR6003 | | | DF1504S | DF1504S | | | ERB83-003 | SB330 | | |
| CR0720SB | TB0720M | | | CR6AF4GPP | PR6004 | | | DF1506M | DF1506M | | | ERB83-004 | SB350 | | |
| CR0720SC | TB0720H | | | CR6AF6GPP | PR6005 | | | DF1506S | DF1506S | | | ERB83-005 | SB350 | | |
| CR0800SA | TB0900L | | | CRSH1-2 | SB120 | | | DF1508M | DF1508M | | | ERB83-006 | SB360 | | |
| CR0800SB | TB0900M | | | CRSH1-3 | SB130 | | | DF1508S | DF1508S | | | ERB84-009 | SB390 | | |
| CR0800SC | TB0900H | | | CRSH1-4 | SB140 | | | DF1510M | DF1510M | | | ERC62M-003 | SBL1035 | | |
| CR1-010 | 1N5392 | | | CRSH1-5 | SB150 | | | DF1510S | DF1510S | | | ERC62M-004 | SBL1045 | | |
| CR1-020 | 1N5393 | | | CRSH1-6 | SB160 | | | DF15SC4M | MBRB1540CT | | | ERC62M-006 | SBL1060 | | |
| CR1-040 | 1N5395 | | | CRSH2-2 | SB320 | | | DL03-58F1 | SMAJ58CA | | | ERC80M-003 | SBL530 | | |
| CR1-060 | 1N5397 | | | CRSH2-3 | SB330 | | | DL04-18F1 | SMAJ18CA | | | ERC80M-004 | SBL540 | | |
| CR1-080 | 1N5398 | | | CRSH2-4 | SB340 | | | DR750 | LT6A01 | | | ERC80M-005 | SBL550 | | |
| CR1-100 | 1N5399 | | | CRSH2-5 | SB350 | | | DR751 | LT6A02 | | | ERC80M-006 | SBL560 | | |
| CR1100SA | TB1100L | | | CRSH3-2 | SB320 | | | DR7510 | LT6A07 | | | ERC81-003 | SB330 | | |
| CR1100SB | TB1100M | | | CRSH3-3 | SB330 | | | DR752 | LT6A03 | | | ERC81-004 | SB340 | | |
| CR1100SC | TB1100H | | | CRSH3-4 | SB340 | | | DR754 | LT6A04 | | | ERC81-005 | SB350 | | |
| CR1300SA | TB1300L | | | CRSH3-5 | SB350 | | | DR756 | LT6A05 | | | ERC81-006 | SB360 | | |
| CR1300SB | TB1300M | | | CRSH3-6 | SB360 | | | DR758 | LT6A06 | | | ERC81S-004 | SB550 | | |
| CR1300SC | TB1300H | | | CRSH5-2 | SB520 | | | DTV32D | DD0515 | | | ERC84-009 | SB3100 | | |
| CR1500SA | TB1500L | | | CRSH5-3 | SB530 | | | DTV56D | DD1015 | | | ES1A | ES1A | | |
| CR1500SB | TB1500M | | | CRSH5-4 | SB540 | | | EFM101 | US1A | | | ES1B | ES1B | | |
| CR1500SC | TB1500H | | | CRSH5-5 | SB550 | | | EFM102 | US1B | | | ES1C | ES1C | | |
| CR1800SA | TB1800L | | | CRSH5-6 | SB560 | | | EFM104 | US1D | | | ES1D | ES1D | | |
| CR1800SB | TB1800M | | | CRSH8A-2 | SB830 | | | EFM106 | US1G | | | ES1G | ES1G | | |
| CR1800SC | TB1800H | | | CRSH8A-3 | SB830 | | | EGF1A | US1A | | | ES1J | ES1J | | |
| CR1F-010 | PR1502 | | | CRSH8A-4 | SB840 | | | EGF1B | US1B | | | ES2A | ES2A | | |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-------------|----------------|---------|----------------|------------|----------------|------------|
| ES2B | ES2B | FM4001 | S1A | FR252 | PR3002 | G1M | 1N5399G |
| ES2C | ES2C | FM4002 | S1B | FR253 | PR3003 | G2A | 1N5400G |
| ES2D | ES2D | FM4003 | S1D | FR254 | PR3004 | G2B | 1N5401G |
| ES2F | ES2D | FM4004 | S1G | FR255 | PR3005 | G2D | 1N5402G |
| ES2G | ES2D | FM4005 | S1J | FR256 | PR3006G | G2G | 1N5404G |
| ES3A | ES3A | FM4006 | S1K | FR257 | PR3007G | G2J | 1N5406G |
| ES3B | ES3B | FM4007 | S1M | FR301 | PR3001 | G2K | 1N5407G |
| ES3C | ES3C | FM5817 | B120 | FR301G | PR3001G | G2M | 1N5408G |
| ES3D | ES3D | FM5818 | B130 | FR301GP | PR3001G | G3A | 1N5400G |
| ESAB82-004 | SBL1040CT | FM5819 | B140 | FR302 | PR3002 | G3B | 1N5401G |
| ESAB82M-004 | MBR1040CT | FM5820 | B320 | FR302G | PR3002G | G3D | 1N5402G |
| ESAB82M-006 | MBR1060CT | FM5821 | B330 | FR302GP | PR3002G | G3G | 1N5404G |
| ESAB85-009 | MBR1090CT | FM5822 | B340 | FR303 | PR3003 | G3J | 1N5406G |
| ESAB85M-009 | MBR1090CT | FMKA1100 | B1100LB | FR303G | PR3003G | G3K | 1N5407G |
| ESAC61-004 | SBL1640PT | FMKA120 | B120B | FR303GP | PR3003G | G3M | 1N5408G |
| ESAC63-004 | SBL2045CT | FMKA130 | B130B | FR304 | PR3004 | G4A | 1N5400G |
| ESAC63-006 | SBL2060CT | FMKA130 | B130B | FR304G | PR3004G | G4B | 1N5401G |
| ESAC63M-004 | SBL2045CT | FMKA140 | B140B | FR304GP | PR3004G | G4D | 1N5402G |
| ESAC63M-006 | SBL2060CT | FMKA150 | B150B | FR305 | PR3005 | G4G | 1N5404G |
| ESAC82-004 | SBL1040CT | FMKA160 | B160B | FR305G | PR3005G | G4J | 1N5406G |
| ESAC82-006 | SBL1060CT | FMKA170 | B170B | FR305GP | PR3005G | GBJ10005 | GBJ10005 |
| ESAC82M-004 | SBL1040CT | FMKA180 | B180B | FR306 | PR3006G | GBJ1001 | GBJ1001 |
| ESAC82M-006 | MBR1060CT | FMKA190 | B190B | FR306G | PR3006G | GBJ1002 | GBJ1002 |
| ESAC82M-006 | MBR1060CT | FR101 | PR1001 | FR306GP | PR3006G | GBJ1004 | GBJ1004 |
| ESAC83-004 | SBL2040PT | FR101G | PR1001G | FR307 | PR3007G | GBJ1006 | GBJ1006 |
| ESAC83-006 | SBL2060PT | FR101GP | PR1001G | FR307G | PR3007G | GBJ1008 | GBJ1008 |
| ESAC83M-004 | SBL2040PT | FR102 | PR1002 | FR307GP | PR3007G | GBJ1010 | GBJ1010 |
| ESAC83M-006 | SBL2060PT | FR102G | PR1002G | FR3A | RS3A | GBJ15005 | GBJ15005 |
| ESAC85-009 | MBR1090CT | FR102GP | PR1002G | FR3B | RA3B | GBJ1501 | GBJ1501 |
| ESAC85M-009 | MBR1090CT | FR103 | PR1003 | FR3D | RS3D | GBJ1502 | GBJ1502 |
| ESAD83-004 | SBL3040PT | FR103G | PR1003G | FR3G | RS3G | GBJ1504 | GBJ1504 |
| ESAD83-004K | SBL3040PT | FR103GP | PR1003G | FR3J | RS3J | GBJ1506 | GBJ1506 |
| ESAD83-006 | SBL3060PT | FR104 | PR1004 | FR3K | RS3K | GBJ1508 | GBJ1508 |
| ESAD83M-004 | SBL3040PT | FR104G | PR1004G | FR3M | RS3M | GBJ1510 | GBJ1510 |
| ESAD83M-006 | SBL3060PT | FR104GP | PR1004G | FR601 | PR6001 | GBJ20005 | GBJ20005 |
| ESAE83-004 | SBL6040PT | FR105 | PR1005 | FR601GP | PR6001 | GBJ2001 | GBJ2001 |
| ESAE83-006 | SBL6060PT | FR105G | PR1005G | FR602 | PR6002 | GBJ2002 | GBJ2002 |
| FE1A | SF10AG | FR105GP | PR1005G | FR602GP | PR6002 | GBJ2004 | GBJ2004 |
| FE1B | SF10BG | FR106 | PR1006G | FR603 | PR6003 | GBJ2006 | GBJ2006 |
| FE1C | SF10CG | FR106G | PR1006G | FR603GP | PR6003 | GBJ2008 | GBJ2008 |
| FE1D | SF10DG | FR106GP | PR1006G | FR604 | PR6004 | GBJ2010 | GBJ2010 |
| FE2A | SF20AG | FR107 | PR1007G | FR604GP | PR6004 | GBJ25005 | GBJ25005 |
| FE2B | SF20BG | FR107G | PR1007G | FR605 | PR6005 | GBJ2501 | GBJ2501 |
| FE2C | SF20CG | FR107GP | PR1007G | FR605GP | PR6005 | GBJ2502 | GBJ2502 |
| FE2D | SF20DG | FR107P | PR1007G | FR801 | STPR805DB | GBJ2504 | GBJ2504 |
| FE3A | SF30AG | FR151 | PR1501 | FR802 | STPR810DB | GBJ2506 | GBJ2506 |
| FE3B | SF30BG | FR151 | PR1501 | FR805 | STPR820DB | GBJ2508 | GBJ2508 |
| FE3C | SF30CG | FR151G | PR1501G | FS1A | RS1A | GBJ2510 | GBJ2510 |
| FE3D | SF30DG | FR151GP | PR1501G | FS1B | RS1B | GBJ6005 | GBJ6005 |
| FEP16AT | STPRF1605CT | FR152 | PR1502 | FS1D | RS1D | GBJ6005G | GBJ6005 |
| FEP16BT | STPRF1610CT | FR152 | PR1502 | FS1G | RS1G | GBJ601 | GBJ601 |
| FEP16CT | STPRF1615CT | FR152G | PR1502G | FS1J | RS1J | GBJ601G | GBJ601 |
| FEP16DT | STPRF1620CT | FR152GP | PR1502G | FS1K | RS1K | GBJ602 | GBJ602 |
| FEP16FT | STPRF1630CT | FR153 | PR1503 | FS1M | RS1M | GBJ602G | GBJ602 |
| FEP16GT | STPRF1640CT | FR153 | PR1503 | FST10100 | MBR10100CT | GBJ604 | GBJ604 |
| FEPB16AT | MURB1610CT | FR153G | PR1503G | FST1025 | SBL1030CT | GBJ604G | GBJ604 |
| FEPB16BT | MURB1610CT | FR153GP | PR1503G | FST1030 | SBL1030CT | GBJ606 | GBJ606 |
| FEPB16CT | MURB1620CT | FR154 | PR1504 | FST1035 | SBL1035CT | GBJ606G | GBJ606 |
| FEPB16DT | MURB1620CT | FR154 | PR1504 | FST1040 | SBL1040CT | GBJ608 | GBJ608 |
| FES16AT | STPR1505D | FR154G | PR1504G | FST1045 | SBL1045CT | GBJ608G | GBJ608 |
| FES16BT | STPR1510D | FR154GP | PR1504G | FST1050 | SBL1050CT | GBJ610 | GBJ610 |
| FES16CT | STPR1515D | FR155 | PR1505 | FST1060 | SBL1060CT | GBJ610G | GBJ610 |
| FES16DT | STPR1520D | FR155 | PR1505 | FST1070 | MBR1070CT | GBJ8005 | GBJ8005 |
| FES8AT | STPR805DF | FR155G | PR1505G | FST1080 | MBR1080CT | GBJ801 | GBJ801 |
| FES8BT | STPR810DF | FR155GP | PR1505G | FST1090 | MBR1090CT | GBJ802 | GBJ802 |
| FES8CT | STPR815DF | FR156 | PR1506G | FST20100 | MBR20100CT | GBJ804 | GBJ804 |
| FES8DT | STPR820DF | FR156G | PR1506G | FST2025 | MBR2030CT | GBJ806 | GBJ806 |
| FES8FT | STPR830DF | FR156GP | PR1506G | FST2025 | MBR2030CT | GBJ808 | GBJ808 |
| FES8GT | STPR840DF | FR157 | PR1507G | FST2030 | SBL2030CT | GBJ810 | GBJ810 |
| FES8HT | STPR850DF | FR157G | PR1507G | FST2035 | SBL2035CT | GBL005 | GBU4005 |
| FES8JT | STPR860DF | FR157GP | PR1507G | FST2040 | SBL2040CT | GBL01 | GBU401 |
| FFM101 | RS1A | FR1A | RS1AB | FST2045 | SBL2045CT | GBL02 | GBU402 |
| FFM102 | RS1B | FR1B | RS1BB | FST2050 | SBL2050CT | GBL04 | GBU404 |
| FFM103 | RS1D | FR1D | RS1DB | FST2060 | SBL2060CT | GBL06 | GBU406 |
| FFM104 | RS1G | FR1G | RS1GB | FST2080 | MBR2080CT | GBL08 | GBU408 |
| FFM105 | RS1J | FR1J | RS1JB | FST2090 | MBR2090CT | GBL10 | GBU410 |
| FFM106 | RS1K | FR1K | RS1KB | FST3025 | SBL3030PT | GBPC12005 | GBPC15005 |
| FFM107 | RS1M | FR1M | RS1MB | FST3030 | SBL3030PT | GBPC12005W | GBPC15005W |
| FM1100 | B1100 | FR201 | PR2001 | FST3035 | SBL3035PT | GBPC1201 | GBPC1501 |
| FM120 | B120 | FR201G | PR2001G | FST3040 | SBL3040PT | GBPC1201W | GBPC1501W |
| FM130 | B130 | FR201GP | PR2001G | FST3045 | SBL3045PT | GBPC1202 | GBPC1502 |
| FM140 | B140 | FR202 | PR2002 | FST3050 | SBL3050PT | GBPC1202W | GBPC1502W |
| FM150 | B150 | FR202G | PR2002G | FST3060 | SBL3060PT | GBPC1204 | GBPC1504 |
| FM160 | B160 | FR202GP | PR2002G | FST4020 | MBR4030PT | GBPC1204W | GBPC1504W |
| FM170 | B170 | FR203 | PR2003 | FST4030 | MBR4030PT | GBPC1206 | GBPC1506 |
| FM180 | B180 | FR203G | PR2003G | FST4040 | MBR4040PT | GBPC1206W | GBPC1506W |
| FM190 | B190 | FR203GP | PR2003G | FST4045 | MBR4045PT | GBPC1208 | GBPC1508 |
| FM220 | B220A | FR204 | PR2004 | FST5020 | SBL6030PT | GBPC1208W | GBPC1508W |
| FM230 | B230A | FR204G | PR2004G | FST5030 | SBL6030PT | GBPC1210 | GBPC1510 |
| FM240 | B240A | FR204GP | PR2004G | FST5040 | SBL6040PT | GBPC1210W | GBPC1510W |
| FM250 | B250A | FR205 | PR2005 | FST5045 | SBL6040PT | GBPC15005 | GBPC15005 |
| FM260 | B260A | FR205G | PR2005G | FST5535 | SBL6035PT | GBPC15005W | GBPC15005W |
| FM320 | B320 | FR205GP | PR2005G | FST5540 | SBL6040PT | GBPC1501 | GBPC1501 |
| FM330 | B330 | FR206 | PR2006G | FST5545 | SBL6040PT | GBPC1501W | GBPC1501W |
| FM340 | B340 | FR206G | PR2006G | G1A | 1N5391G | GBPC1502 | GBPC1502 |
| FM350 | B350 | FR206GP | PR2006G | G1B | 1N5392G | GBPC1502W | GBPC1502W |
| FM360 | B360 | FR207 | PR2007G | G1D | 1N5393G | GBPC1504 | GBPC1504 |
| FM370 | B370 | FR207G | PR2007G | G1G | 1N5395G | GBPC1504W | GBPC1504W |
| FM380 | B380 | FR207GP | PR2007G | G1J | 1N5397G | GBPC1506 | GBPC1506 |
| FM390 | B390 | FR251 | PR3001 | G1K | 1N5398G | GBPC1506W | GBPC1506W |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|------------|----------------|-------------|----------------|-----------|----------------|------------|
| GBPC1508 | GBPC1508 | GP15B | 1N5392G | ICT-45 | 1.5KE56A | KBPC210G | KBPC210G |
| GBPC1508W | GBPC1508W | GP15D | 1N5393G | ICT-45C | 1.5KE56CA | KBPC210M | KBPC210M |
| GBPC1510 | GBPC1510 | GP15G | 1N5395G | ICT-8 | 1.5KE10A | KBPC1500S | GBPC1500S |
| GBPC1510W | GBPC1510W | GP15J | 1N5397G | ICT-8C | 1.5KE10CA | KBPC1500SG | GBPC1500S |
| GBPC2500S | GBPC2500S | GP15K | 1N5398G | ICTE-10 | 1.5KE12A | KBPC1500SGW | GBPC1500SW |
| GBPC2500SW | GBPC2500SW | GP15M | 1N5399G | ICTE-10 | 1.5KE12A | KBPC1500SW | GBPC1500SW |
| GBPC2501 | GBPC2501 | GP20A | LT2A01 | ICTE-10C | 1.5KE12CA | KBPC1501 | GBPC1501 |
| GBPC2501W | GBPC2501W | GP20B | LT2A02 | ICTE-10C | 1.5KE12CA | KBPC1501G | GBPC1501 |
| GBPC2502 | GBPC2502 | GP20D | LT2A03 | ICTE12 | 1.5KE15CA | KBPC1501GW | GBPC1501W |
| GBPC2502W | GBPC2502W | GP20G | LT2A04 | ICTE-12 | 1.5KE15A | KBPC1501W | GBPC1501W |
| GBPC2504 | GBPC2504 | GP20J | LT2A05 | ICTE12C | 1.5KE15CA | KBPC1502 | GBPC1502 |
| GBPC2504W | GBPC2504W | GP30A | 1N5400 | ICTE-12C | 1.5KE15CA | KBPC1502G | GBPC1502 |
| GBPC2506 | GBPC2506 | GP30B | 1N5401 | ICTE15 | 1.5KE18CA | KBPC1502GW | GBPC1502W |
| GBPC2506W | GBPC2506W | GP30D | 1N5402 | ICTE-15 | 1.5KE18A | KBPC1502W | GBPC1502W |
| GBPC2508 | GBPC2508 | GP30G | 1N5404 | ICTE15C | 1.5KE18CA | KBPC1504 | GBPC1504 |
| GBPC2508W | GBPC2508W | GP30J | 1N5406 | ICTE-15C | 1.5KE18CA | KBPC1504G | GBPC1504 |
| GBPC2510 | GBPC2510 | GP30K | 1N5407 | ICTE-18 | 1.5KE22A | KBPC1504GW | GBPC1504W |
| GBPC2510W | GBPC2510W | GP30M | 1N5408 | ICTE-18C | 1.5KE22CA | KBPC1504W | GBPC1504W |
| GBPC3500S | GBPC3500S | GS1A | S1A | ICTE-22 | 1.5KE27A | KBPC1506 | GBPC1506 |
| GBPC3500SW | GBPC3500SW | GS1B | S1B | ICTE-22C | 1.5KE27CA | KBPC1506G | GBPC1506 |
| GBPC3501 | GBPC3501 | GS1D | S1D | ICTE-36 | 1.5KE47A | KBPC1506GW | GBPC1506W |
| GBPC3501W | GBPC3501W | GS1G | S1G | ICTE-36C | 1.5KE47CA | KBPC1506W | GBPC1506W |
| GBPC3502 | GBPC3502 | GS1J | S1J | ICTE-45 | 1.5KE56A | KBPC1508 | GBPC1508 |
| GBPC3502W | GBPC3502W | GS1K | S1K | ICTE-45C | 1.5KE56CA | KBPC1508G | GBPC1508 |
| GBPC3504 | GBPC3504 | GS1M | S1M | ICTE-5 | 1.5KE6.8A | KBPC1508GW | GBPC1508W |
| GBPC3504W | GBPC3504W | HER101 | UF1001 | ICTE-5C | 1.5KE6.8C | KBPC1508W | GBPC1508W |
| GBPC3506 | GBPC3506 | HER102 | UF1002 | ICTE-5C | 1.5KE6.8C | KBPC1510 | GBPC1510 |
| GBPC3506W | GBPC3506W | HER103 | UF1003 | ICTE-8 | 1.5KE10A | KBPC1510G | GBPC1510G |
| GBPC3508 | GBPC3508 | HER104 | UF1004 | ICTE-8C | 1.5KE10CA | KBPC1510GW | GBPC1510W |
| GBPC3508W | GBPC3508W | HER105 | UF1004 | J05 | 1N5391 | KBPC1510W | GBPC1510W |
| GBPC3510 | GBPC3510 | HER105P | UF1004 | J1 | 1N5392 | KBPC2500S | GBPC2500S |
| GBPC3510W | GBPC3510W | HER106 | UF1005 | J10 | 1N5399 | KBPC2500SG | GBPC2500S |
| GBU4005 | GBU4005 | HER107 | UF1006 | J2 | 1N5393 | KBPC2500SGW | GBPC2500SW |
| GBU401 | GBU401 | HER108 | UF1007 | J4 | 1N5395 | KBPC2500SW | GBPC2500SW |
| GBU402 | GBU402 | HER1601C | STPRF1605CT | J6 | 1N5397 | KBPC2501 | GBPC2501 |
| GBU404 | GBU404 | HER1602C | STPRF1610CT | J8 | 1N5398 | KBPC2501G | GBPC2501 |
| GBU406 | GBU406 | HER1603C | STPRF1620CT | K1V12 | SD1A120F | KBPC2501GW | GBPC2501W |
| GBU408 | GBU408 | HER1604C | STPRF1630CT | K1V22 | SD09A220D | KBPC2501W | GBPC2501W |
| GBU410 | GBU410 | HER1605C | STPRF1640CT | K1V22 | SD09A220D | KBPC2502 | GBPC2502 |
| GBU4A | GBU4005 | HER201 | UF2001 | K1V22 | SD09A220D | KBPC2502G | GBPC2502 |
| GBU4B | GBU401 | HER202 | UF2002 | K1V24 | SD09A240D | KBPC2502GW | GBPC2502W |
| GBU4D | GBU402 | HER203 | UF2003 | K1V24 | SD09A240D | KBPC2502W | GBPC2502W |
| GBU4G | GBU404 | HER204 | UF2004 | K1V24 | SD09A240D | KBPC2504 | GBPC2504 |
| GBU4J | GBU406 | HER205 | UF2004 | K1V24W | SD1A240GW | KBPC2504G | GBPC2504 |
| GBU4K | GBU408 | HER205P | UF2004 | K1VA10 | SD09A105D | KBPC2504GW | GBPC2504W |
| GBU4M | GBU410 | HER206 | UF2005 | K1VA10 | SD09A105D | KBPC2504W | GBPC2504W |
| GBU6A | GBU6005 | HER207 | UF2006 | K1VA12 | SD09A120D | KBPC2506 | GBPC2506 |
| GBU6B | GBU601 | HER208 | UF2007 | K1VA12 | SD09A120D | KBPC2506G | GBPC2506 |
| GBU6D | GBU602 | HER301 | UF3001 | K1VA14 | SD09A130D | KBPC2506GW | GBPC2506W |
| GBU6G | GBU604 | HER302 | UF3002 | K1VA14 | SD09A130D | KBPC2506W | GBPC2506W |
| GBU6J | GBU606 | HER303 | UF3003 | K1VA16 | SD09A160D | KBPC2508 | GBPC2508 |
| GBU6K | GBU608 | HER304 | UF3004 | K1VA16 | SD09A160D | KBPC2508G | GBPC2508 |
| GBU6M | GBU610 | HER305 | UF3004 | KB823C04 | SBL1045CT | KBPC2508GW | GBPC2508W |
| GBU8A | GBU8005 | HER305P | UF3004 | KBJ4005G | KBJ4005G | KBPC2508W | GBPC2508W |
| GBU8B | GBU801 | HER306 | UF3005 | KBJ401G | KBJ401G | KBPC2510 | GBPC2510 |
| GBU8D | GBU802 | HER307 | UF3006 | KBJ402G | KBJ402G | KBPC2510G | GBPC2510G |
| GBU8G | GBU804 | HER308 | UF3007 | KBJ404G | KBJ404G | KBPC2510GW | GBPC2510W |
| GBU8J | GBU806 | HER801 | STPR805DF | KBJ406G | KBJ406G | KBPC2510W | GBPC2510W |
| GBU8K | GBU808 | HER802 | STPR810DF | KBJ408G | KBJ408G | KBPC3500S | GBPC3500S |
| GBU8M | GBU810 | HER803 | STPR820DF | KBJ410G | KBJ410G | KBPC3500SG | GBPC3500S |
| GF1A | S1AB | HER804 | STPR830DF | KBJ6005G | KBJ6005G | KBPC3500SGW | GBPC3500SW |
| GF1B | S1BB | HER805 | STPR840DF | KBJ601G | KBJ601G | KBPC3500SW | GBPC3500SW |
| GF1D | S1DB | HER101 | US1A | KBJ602G | KBJ602G | KBPC3501 | GBPC3501 |
| GF1G | S1GB | HF1M102 | US1B | KBJ604G | KBJ604G | KBPC3501G | GBPC3501 |
| GF1J | S1JB | HF1M103 | US1D | KBJ606G | KBJ606G | KBPC3501GW | GBPC3501W |
| GF1K | S1KB | HF1M104 | US1G | KBJ608G | KBJ608G | KBPC3501W | GBPC3501W |
| GF1M | S1MB | HF1M105 | US1G | KBJ610G | KBJ610G | KBPC3502 | GBPC3502 |
| GI1001 | SF10AG | HF1M106 | US1J | KBL005 | GBU4005 | KBPC3502G | GBPC3502 |
| GI1002 | SF10BG | HSM1100J | B1100B | KBL01 | GBU401 | KBPC3502GW | GBPC3502W |
| GI1003 | SF10CG | HSM120J | B120B | KBL02 | GBU402 | KBPC3502W | GBPC3502W |
| GI1004 | SF10DG | HSM130J | B130B | KBL04 | GBU404 | KBPC3504 | GBPC3504 |
| GI1101 | SF30AG | HSM130J | B130B | KBL06 | GBU406 | KBPC3504G | GBPC3504 |
| GI1102 | SF30BG | HSM140J | B140B | KBL08 | GBU408 | KBPC3504GW | GBPC3504W |
| GI1103 | SF30CG | HSM150J | B150B | KBL10 | GBU410 | KBPC3504W | GBPC3504W |
| GI1104 | SF30DG | HSM160J | B160B | KBP005G | KBP005G | KBPC3506 | GBPC3506 |
| GI500 | 1N5400G | HSM170J | B170B | KBP005M | KBP005G | KBPC3506G | GBPC3506 |
| GI501 | 1N5401G | HSM180J | B180B | KBP01G | KBP01G | KBPC3506GW | GBPC3506W |
| GI502 | 1N5402G | HSM190J | B190B | KBP01M | KBP01G | KBPC3506W | GBPC3506W |
| GI504 | 1N5404G | HSM3100J | B3100 | KBP02G | KBP02G | KBPC3508 | GBPC3508 |
| GI506 | 1N5406G | HSM320J | B320 | KBP02M | KBP02G | KBPC3508G | GBPC3508 |
| GI508 | 1N5407G | HSM330J | B330 | KBP04G | KBP04G | KBPC3508GW | GBPC3508W |
| GI510 | 1N5408G | HSM340J | B340 | KBP04M | KBP04G | KBPC3508W | GBPC3508W |
| GI750 | LT6A01 | HSM350J | B350 | KBP06G | KBP06G | KBPC3510 | GBPC3510 |
| GI751 | LT6A02 | HSM360J | B360 | KBP06M | KBP06G | KBPC3510G | GBPC3510G |
| GI752 | LT6A03 | HSM370J | B370 | KBP08G | KBP08G | KBPC3510GW | GBPC3510W |
| GI754 | LT6A04 | HSM380J | B380 | KBP08M | KBP08G | KBPC3510W | GBPC3510W |
| GI756 | LT6A05 | HSM390J | B390 | KBP10G | KBP10G | KBU4A | GBU4005 |
| GI758 | LT6A06 | HSM520J | B520C | KBP10M | KBP10G | KBU4B | GBU401 |
| GIB2401 | MURB1610CT | HSM530J | B530C | KBP2005G | KBP2005G | KBU4D | GBU402 |
| GIB2402 | MURB1610CT | HSM540J | B540C | KBP2005M | KBP2005G | KBU4G | GBU404 |
| GIB2403 | MURB1620CT | HSM550J | B550C | KBP201G | KBP201G | KBU4J | GBU406 |
| GIB2404 | MURB1620CT | HSM560J | B560C | KBP201M | KBP201G | KBU4K | GBU408 |
| GP10A | 1N4001G | ICT-10 | 1.5KE12A | KBP202G | KBP202G | KBU4M | GBU410 |
| GP10B | 1N4002G | ICT-10C | 1.5KE12CA | KBP202M | KBP202G | KBU6005 | KBJ6005G |
| GP10D | 1N4003G | ICT-12 | 1.5KE15A | KBP204G | KBP204G | KBU601 | KBJ601G |
| GP10G | 1N4004G | ICT-12C | 1.5KE15CA | KBP204M | KBP204G | KBU602 | KBJ602G |
| GP10J | 1N4005G | ICT-18 | 1.5KE22A | KBP206G | KBP206G | KBU604 | KBJ604G |
| GP10K | 1N4006G | ICT-18C | 1.5KE22CA | KBP206M | KBP206G | KBU606 | KBJ606G |
| GP10M | 1N4007G | ICT-22 | 1.5KE27A | KBP208G | KBP208G | KBU608 | KBJ608G |
| GP15A | 1N5391G | ICT-22C | 1.5KE27CA | KBP208M | KBP208G | KBU610 | KBJ610G |

| Competitor | P/N | LT | P/N | Competitor | P/N | LT | P/N | Competitor | P/N | LT | P/N | Competitor | P/N | LT | P/N |
|------------|------------|----|-----|------------|-------------|----|-----|-------------|------------|----|-----|------------|-------------|----|-----|
| KBU6A | GBU6005 | | | LT1507G | 1N5399G | | | MBR1645 | MBR1645 | | | MBRS160T3 | B160B | | |
| KBU6B | GBU601 | | | M100A | 1N4001G | | | MBR1650 | MBR1650 | | | MBRS170 | B170B | | |
| KBU6D | GBU602 | | | M100B | 1N4002G | | | MBR1660 | MBR1660 | | | MBRS180 | B180B | | |
| KBU6G | GBU604 | | | M100D | 1N4003G | | | MBR20100CT | MBR20100CT | | | MBRS190 | B190B | | |
| KBU6J | GBU606 | | | M100G | 1N4004G | | | MBR2030CT | MBR2030CT | | | MBRS2030 | B230 | | |
| KBU6K | GBU608 | | | M100J | 1N4005G | | | MBR2030CTL | MBR2030CT | | | MBRS2040 | B240 | | |
| KBU6M | GBU610 | | | M100K | 1N4006G | | | MBR2035CT | MBR2035CT | | | MBRS2040L | B240 | | |
| KBU8A | GBU8005 | | | M100M | 1N4007G | | | MBR2040CT | MBR2040CT | | | MBRS2050 | B250 | | |
| KBU8B | GBU801 | | | MAC08BT1 | T1M10F-600D | | | MBR2045CT | MBR2045CT | | | MBRS2060 | B260 | | |
| KBU8D | GBU802 | | | MAC08MT1 | T1M10F-800D | | | MBR2050CT | MBR2050CT | | | MBRS220 | B220 | | |
| KBU8G | GBU804 | | | MAC4M | T4M35T-600B | | | MBR2060CT | MBR2060CT | | | MBRS220T3 | B220 | | |
| KBU8J | GBU806 | | | MAC4N | T4M35T-800B | | | MBR2070CT | MBR2070CT | | | MBRS230 | B230 | | |
| KBU8K | GBU808 | | | MAC4SM | T4M10T-600B | | | MBR2080CT | MBR2080CT | | | MBRS230T3 | B230 | | |
| KBU8M | GBU810 | | | MAC4SN | T4M10T-800B | | | MBR2090CT | MBR2090CT | | | MBRS240 | B240 | | |
| KL3L07 | TA0640L | | | MAC8D | T8M35T-400B | | | MBR2535CT | MBR2535CT | | | MBRS240T3 | B240 | | |
| KL3N14 | TA1300L | | | MAC8M | T8M35T-600B | | | MBR2540CT | MBR2540CT | | | MBRS250 | B250 | | |
| KP10L07 | TC0640L | | | MAC8N | T8M35T-800B | | | MBR2545CT | MBR2545CT | | | MBRS250T3 | B250 | | |
| KP10N14 | TC1300L | | | MAC8SD | T8M5T-400B | | | MBR2545CTL | MBR2545CT | | | MBRS260 | B260 | | |
| KP10R25 | TC2300L | | | MAC8SM | T8M5T-600B | | | MBR2550CT | MBR2550CT | | | MBRS260T3 | B260 | | |
| KS823C04 | MBRB1545CT | | | MAC8SN | T8M5T-800B | | | MBR2560CT | MBR2560CT | | | MBRS320 | B320 | | |
| KU10L07 | TB0640H | | | MAC97A6/8 | T1M5F600A | | | MBR3030PT | MBR3030PT | | | MBRS320T3 | B320 | | |
| KU10L08 | TB0720H | | | MAC997A6 | T08M5F-400A | | | MBR3035PT | MBR3035PT | | | MBRS330 | B330 | | |
| KU10R29N | TB3100H | | | MAC997A8 | T08M5F-600A | | | MBR3040PT | MBR3040PT | | | MBRS330T3 | B330 | | |
| KU10S40N | TB3500H | | | MAC9D | T8M50T-400B | | | MBR3045PT | MBR3045PT | | | MBRS340 | B340 | | |
| KU5N12 | TB1100M | | | MAC9M | T8M50T-600B | | | MBR3050PT | MBR3050PT | | | MBRS340T3 | B340 | | |
| KU5R29N | TB3100M | | | MAC9N | T8M50T-800B | | | MBR3060PT | MBR3060PT | | | MBRS350 | B350 | | |
| LCE10 | 1.5KE12A | | | MB1505 | GBPC15005 | | | MBR3100 | SB3100 | | | MBRS350T3 | B350 | | |
| LCE10A | 1.5KE12A | | | MB1505W | GBPC15005W | | | MBR350 | SB350 | | | MBRS360 | B360 | | |
| LCE11 | 1.5KE13A | | | MB151 | GBPC1501 | | | MBR360 | SB360 | | | MBRS360T3 | B360 | | |
| LCE11A | 1.5KE13A | | | MB1510 | GBPC1510 | | | MBR4015LWT | MBR4030PT | | | MCR100-3 | S08M02-100A | | |
| LCE12 | 1.5KE15A | | | MB1510W | GBPC1510W | | | MBR4030PT | MBR4030PT | | | MCR100-4 | S08M02-200A | | |
| LCE12A | 1.5KE15A | | | MB151W | GBPC1501W | | | MBR4035PT | MBR4035PT | | | MCR100-6 | S08M02-400A | | |
| LCE13 | 1.5KE16A | | | MB152 | GBPC1502 | | | MBR4040PT | MBR4040PT | | | MCR100-8 | S08M02-600A | | |
| LCE13A | 1.5KE16A | | | MB152W | GBPC1502W | | | MBR4045PT | MBR4045PT | | | MCR12D | S12M15-400B | | |
| LCE14 | 1.5KE18A | | | MB154 | GBPC1504 | | | MBR4045WT | MBR4045PT | | | MCR12LD | S12M8-400B | | |
| LCE14A | 1.5KE18A | | | MB154W | GBPC1504W | | | MBR4050PT | MBR4050PT | | | MCR12LM | S12M8-600B | | |
| LCE15 | 1.5KE18A | | | MB156 | GBPC1506 | | | MBR4060PT | MBR4060PT | | | MCR12LN | S12M8-800B | | |
| LCE15A | 1.5KE18A | | | MB156W | GBPC1506W | | | MBR6045WT | MBR6045PT | | | MCR12M | S12M15-600B | | |
| LCE16 | 1.5KE20A | | | MB158 | GBPC1508 | | | MBR6045WT | MBR6045PT | | | MCR12N | S12M15-800B | | |
| LCE16A | 1.5KE20A | | | MB158W | GBPC1508W | | | MBR730 | MBR730 | | | MCR8M | S8M15-600B | | |
| LCE17 | 1.5KE20A | | | MB15 | HD01 | | | MBR735 | MBR735 | | | MCR8N | S8M15-800B | | |
| LCE17A | 1.5KE20A | | | MB200 | SF20AG | | | MBR740 | MBR740 | | | MCR8SD | S8M02-400B | | |
| LCE18 | 1.5KE22A | | | MB201 | SF20BG | | | MBR745 | MBR745 | | | MCR8SM | S8M02-600B | | |
| LCE18A | 1.5KE22A | | | MB202 | SF20BG | | | MBR750 | MBR750 | | | MCR8SN | S8M02-800B | | |
| LCE20 | 1.5KE24A | | | MB204 | SF20CG | | | MBR760 | MBR760 | | | MDA100G | KBP005G | | |
| LCE20A | 1.5KE24A | | | MB206 | UF2003 | | | MBRA120 | B120 | | | MDA101G | KBP01G | | |
| LCE22 | 1.5KE27A | | | MB207 | SF20AG | | | MBRA130 | B130 | | | MDA102G | KBP02G | | |
| LCE22A | 1.5KE27A | | | MB208 | SF20BG | | | MBRA130L | B130 | | | MDA104G | KBP04G | | |
| LCE24 | 1.5KE30A | | | MB209 | SF20BG | | | MBRA130LT3 | B130 | | | MDA106G | KBP06G | | |
| LCE24A | 1.5KE30A | | | MB211 | SF20CG | | | MBRA140 | B140 | | | MDA108G | KBP08G | | |
| LCE26 | 1.5KE30A | | | MB213 | UF2003 | | | MBRA140L | B140 | | | MDA110G | KBP10G | | |
| LCE26A | 1.5KE30A | | | MB2505 | GBPC25005 | | | MBRA140LT3 | B140 | | | MDA200G | KBP2005G | | |
| LCE28 | 1.5KE33A | | | MB2505W | GBPC25005W | | | MBRA140T3 | B140 | | | MDA201G | KBP201G | | |
| LCE28A | 1.5KE33A | | | MB251 | GBPC2501 | | | MBRA150 | B150 | | | MDA202G | KBP202G | | |
| LCE6.5 | 1.5KE8.2A | | | MB2510 | GBPC2510 | | | MBRA150T3 | B150 | | | MDA204G | KBP204G | | |
| LCE6.5A | 1.5KE7.5A | | | MB2510W | GBPC2510W | | | MBRA160 | B160 | | | MDA206G | KBP206G | | |
| LCE7.0 | 1.5KE8.2A | | | MB251W | GBPC2501W | | | MBRA160T3 | B160 | | | MDA208G | KBP208G | | |
| LCE7.0A | 1.5KE8.2A | | | MB252 | GBPC2502 | | | MBRB1030 | SBG1030CT | | | MDA210G | KBP210G | | |
| LCE7.5 | 1.5KE9.1A | | | MB252W | GBPC2502W | | | MBRB1035 | SBG1035CT | | | MDA970G1 | GBU4005 | | |
| LCE7.5A | 1.5KE9.1A | | | MB254 | GBPC2504 | | | MBRB1040 | SBG1040CT | | | MDA970G10 | GBU410 | | |
| LCE8.0 | 1.5KE10A | | | MB254W | GBPC2504W | | | MBRB1045 | SBG1045CT | | | MDA970G2 | GBU401 | | |
| LCE8.0A | 1.5KE10A | | | MB256 | GBPC2506 | | | MBRB1530CT | MBRB1530CT | | | MDA970G3 | GBU402 | | |
| LCE8.5 | 1.5KE10A | | | MB256W | GBPC2506W | | | MBRB1535CT | MBRB1535CT | | | MDA970G5 | GBU404 | | |
| LCE8.5A | 1.5KE10A | | | MB258 | GBPC2508 | | | MBRB1540CT | MBRB1540CT | | | MDA970G6 | GBU406 | | |
| LCE9.0 | 1.5KE11A | | | MB258W | GBPC2508W | | | MBRB1545CT | MBRB1545CT | | | MDA970G8 | GBU408 | | |
| LCE9.0A | 1.5KE11A | | | MB2S | HD02 | | | MBRB1630 | SBG1630CT | | | MMT05B230 | TB2300M | | |
| LSM1100J | B1100B | | | MB3505 | GBPC35005 | | | MBRB1635 | SBG1635CT | | | MMT05B260 | TB2600M | | |
| LSM120J | B120B | | | MB3505W | GBPC35005W | | | MBRB1640 | SBG1640CT | | | MMT05B310 | TB3100M | | |
| LSM130J | B130B | | | MB351 | GBPC3501 | | | MBRB1645 | SBG1645CT | | | MMT10B230 | TB2300H | | |
| LSM140J | B140B | | | MB3510 | GBPC3510 | | | MBRB2030CT | SBG2030CT | | | MMT10B260 | TB2600H | | |
| LSM145J | B150B | | | MB3510W | GBPC3510W | | | MBRB2035CT | SBG2035CT | | | MMT10B310 | TB3100H | | |
| LSM150J | B150B | | | MB351W | GBPC3501W | | | MBRB2040CT | SBG2040CT | | | MP15005 | GBPC15005 | | |
| LSM160J | B160B | | | MB352 | GBPC3502 | | | MBRB2045CT | SBG2045CT | | | MP15005W | GBPC15005W | | |
| LSM170J | B170B | | | MB352W | GBPC3502W | | | MBRB2530CT | SBG3030CT | | | MP1501 | GBPC1501 | | |
| LSM180J | B180B | | | MB354 | GBPC3504 | | | MBRB2535CT | SBG3040CT | | | MP1501W | GBPC1501W | | |
| LSM190J | B190B | | | MB354W | GBPC3504W | | | MBRB2535CTL | SBG3040CT | | | MP1502 | GBPC1502 | | |
| LSM3100J | B3100 | | | MB356 | GBPC3506 | | | MBRB2540CT | SBG3040CT | | | MP1502W | GBPC1502W | | |
| LSM320J | B320 | | | MB356W | GBPC3506W | | | MBRB2545CT | SBG3050CT | | | MP1504 | GBPC1504 | | |
| LSM330J | B330 | | | MB358 | GBPC3508 | | | MBRB2550CT | SBG3050CT | | | MP1504W | GBPC1504W | | |
| LSM335J | B340 | | | MB358W | GBPC3508W | | | MBRB2555CT | SBG3060CT | | | MP1505 | GBPC15005 | | |
| LSM340J | B340 | | | MB4S | HD04 | | | MBRB2560CT | SBG3060CT | | | MP1505W | GBPC15005W | | |
| LSM345J | B350 | | | MB6S | HD06 | | | MBRB730 | SBG1030CT | | | MP1506 | GBPC1506 | | |
| LSM350J | B350 | | | MBR1030 | MBR1030 | | | MBRB735 | SBG1035CT | | | MP1506W | GBPC1506W | | |
| LSM360J | B360 | | | MBR1035 | MBR1035 | | | MBRB740 | SBG1040CT | | | MP1508 | GBPC1508 | | |
| LSM370J | B370 | | | MBR1040 | MBR1040 | | | MBRB745 | SBG1045CT | | | MP1508W | GBPC1508W | | |
| LSM380J | B380 | | | MBR1045 | MBR1045 | | | MBRS1100 | B1100LB | | | MP151 | GBPC1501 | | |
| LSM390J | B390 | | | MBR1050 | MBR1050 | | | MBRS1100T3 | B1100LB | | | MP1510 | GBPC1510 | | |
| LSM520J | B520C | | | MBR1060 | MBR1060 | | | MBRS120 | B120B | | | MP1510W | GBPC1510W | | |
| LSM530J | B530C | | | MBR1100 | SB1100 | | | MBRS120T3 | B120B | | | MP151W | GBPC1501W | | |
| LSM535J | B540C | | | MBR150 | SB150 | | | MBRS130 | B130B | | | MP152 | GBPC1502 | | |
| LSM540J | B540C | | | MBR1530CT | MBR1530CT | | | MBRS130L | B130LB | | | MP152W | GBPC1502W | | |
| LSM545J | B550C | | | MBR1535CT | MBR1535CT | | | MBRS130LT3 | B130LB | | | MP154 | GBPC1504 | | |
| LSM550J | B550C | | | MBR1540CT | MBR1540CT | | | MBRS130T3 | B130B | | | MP154W | GBPC1504W | | |
| LSM560J | B560C | | | MBR1545CT | MBR1545CT | | | MBRS140 | B140B | | | MP156 | GBPC1506 | | |
| LT1501G | 1N5391G | | | MBR1550CT | MBR1550CT | | | MBRS140L | B140B | | | MP156W | GBPC1506W | | |
| LT1502G | 1N5392G | | | MBR1560CT | MBR1560CT | | | MBRS140T3 | B140B | | | MP158 | GBPC1508 | | |
| LT1503G | 1N5393G | | | MBR160 | SB160 | | | MBRS150 | B150B | | | MP158W | GBPC1508W | | |
| LT1504G | 1N5395G | | | MBR1630 | MBR1630 | | | MBRS150T3 | B150B | | | MP25005 | GBPC25005 | | |
| LT1505G | 1N5397G | | | MBR1635 | MBR1635 | | | MBRS1540 | B240 | | | MP25005W | GBPC25005W | | |
| LT1506G | 1N5398 | | | | | | | | | | | | | | |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|------------|----------------|---------|----------------|-------------|----------------|------------|
| MP2501W | GBPC2501W | MR830 | PR3001 | MSG180 | SB180 | P0720SA | TB0720L |
| MP2502 | GBPC2502 | MR831 | PR3002 | MSG190 | SB190 | P0720SB | TB0720M |
| MP2502W | GBPC2502W | MR832 | PR3003 | MSL245 | SB350 | P0720SB | TB0720M |
| MP2504 | GBPC2504 | MR834 | PR3004 | MSP120 | SB120 | P0720SC | TB0720H |
| MP2504W | GBPC2504W | MR836 | PR3005 | MSP130 | SB130 | P0720SC | TB0720H |
| MP2505 | GBPC25005 | MR850 | PR3001 | MSP140 | SB140 | P0800SA | TB0900L |
| MP2505W | GBPC25005W | MR851 | PR3002 | MSP145 | SB150 | P0800SB | TB0900M |
| MP2506 | GBPC2506 | MR852 | PR3003 | MSP150 | SB150 | P0800SC | TB0900H |
| MP2506W | GBPC2506W | MR854 | PR3004 | MSP160 | SB160 | P0900SA | TB0900L |
| MP2508 | GBPC2508 | MR856 | PR3005 | MSP170 | SB170 | P0900SB | TB0900M |
| MP2508W | GBPC2508W | MRA4003 | S1G | MSP180 | SB180 | P0900SC | TB0900H |
| MP251 | GBPC2501 | MRA4003T3 | S1G | MSP190 | SB190 | P1100SA | TB1100L |
| MP2510 | GBPC2510 | MRA4004 | S1G | MSP220 | SB320 | P1100SA | TB1100L |
| MP2510W | GBPC2510W | MRA4004T3 | S1G | MSP230 | SB330 | P1100SB | TB1100M |
| MP2511W | GBPC2501W | MRA4005 | S1J | MSP240 | SB340 | P1100SB | TB1100M |
| MP252 | GBPC2502 | MRA4005T3 | S1J | MSP245 | SB350 | P1100SC | TB1100H |
| MP252W | GBPC2502W | MRA4006 | S1K | MSP250 | SB350 | P1100SC | TB1100H |
| MP254 | GBPC2504 | MRA4006T3 | S1K | MSP260 | SB360 | P1300SA | TB1300L |
| MP254W | GBPC2504W | MRA4007 | S1M | MSP270 | SB370 | P1300SA | TB1300L |
| MP256 | GBPC2506 | MRA4007T3 | S1M | MSP280 | SB380 | P1300SB | TB1300M |
| MP256W | GBPC2506W | MRA4935 | US1D | MSP290 | SB390 | P1300SB | TB1300M |
| MP258 | GBPC2508 | MRA4935T3 | US1D | MSP320 | SB320 | P1300SC | TB1300H |
| MP258W | GBPC2508W | MRA4936 | US1G | MSP330 | SB330 | P1300SC | TB1300H |
| MP35005 | GBPC35005 | MRA4936T3 | US1G | MSP340 | SB340 | P1500SA | TB1500L |
| MP35005W | GBPC35005W | MRA4937 | US1J | MSP345 | SB350 | P1500SA | TB1500L |
| MP3501 | GBPC3501 | MRA4937T3 | US1J | MSP350 | SB350 | P1500SB | TB1500M |
| MP3501W | GBPC3501W | MRS3100 | B3100 | MSP360 | SB360 | P1500SB | TB1500M |
| MP3502 | GBPC3502 | MRS320 | B320 | MSP370 | SB370 | P1500SC | TB1500H |
| MP3502W | GBPC3502W | MRS330 | B330 | MSP380 | SB380 | P1500SC | TB1500H |
| MP3504 | GBPC3504 | MRS340 | B340 | MSP390 | SB390 | P1800SA | TB1800L |
| MP3504W | GBPC3504W | MRS350 | B350 | MSP520 | SB520 | P1800SA | TB1800L |
| MP3505 | GBPC35005 | MRS360 | B360 | MSP530 | SB530 | P1800SB | TB1800M |
| MP3505W | GBPC35005W | MRS370 | B370 | MSP535 | SB540 | P1800SB | TB1800M |
| MP3506 | GBPC3506 | MRS380 | B380 | MSP540 | SB540 | P1800SC | TB1800H |
| MP3506W | GBPC3506W | MRS390 | B390 | MSP545 | SB550 | P1800SC | TB1800H |
| MP3508 | GBPC3508 | MS1002 | MBR1030 | MSP550 | SB550 | P2300SA | TB2300L |
| MP3508W | GBPC3508W | MS1003 | SBL1030 | MSP560 | SB560 | P2300SA | TB2300L |
| MP351 | GBPC3501 | MS1004 | SBL1040 | MSP835 | SB840 | P2300SB | TB2300M |
| MP3510 | GBPC3510 | MS1005 | SBL1050 | MSP845 | SB845 | P2300SB | TB2300M |
| MP3510W | GBPC3510W | MS1006 | MBR1060 | MT2060 | D5G | P2300SC | TB2300H |
| MP351W | GBPC3501W | MS102 | SB120 | MT2060A | D5G | P2300SC | TB2300H |
| MP352 | GBPC3502 | MS103 | SB130 | MT2061 | D5G | P2600SA | TB2600L |
| MP352W | GBPC3502W | MS104 | SB140 | MT2061A | D5G | P2600SA | TB2600L |
| MP354 | GBPC3504 | MS1045 | SBL1045 | MUR10150E | DD1015 | P2600SB | TB2600M |
| MP354W | GBPC3504W | MS105 | SB150 | MUR105 | SF10AG | P2600SB | TB2600M |
| MP356 | GBPC3506 | MS106 | SB160 | MUR110 | SF10BG | P2600SC | TB2600H |
| MP356W | GBPC3506W | MS1060 | SBL1060 | MUR1100 | UF1007 | P2600SC | TB2600H |
| MP358 | GBPC3508 | MS107 | SB170 | MUR1100E | UF1007 | P300A | 1N5400G |
| MP358W | GBPC3508W | MS108 | SB180 | MUR115 | SF10CG | P300B | 1N5401G |
| MPT-10 | 1.5KE12A | MS109 | SB190 | MUR120 | MUR120 | P300D | 1N5402G |
| MPT-10C | 1.5KE12CA | MS110 | SB1100 | MUR130 | SF10FG | P300G | 1N5404G |
| MPT-12 | 1.5KE15A | MS1625 | SBL1630 | MUR140 | MUR140 | P300J | 1N5406G |
| MPT-12C | 1.5KE15CA | MS1635 | SBL1635 | MUR150 | MUR160 | P300K | 1N5407G |
| MPT-18 | 1.5KE22A | MS1645 | SBL1645 | MUR1520 | STPR1520D | P300M | 1N5408G |
| MPT-18C | 1.5KE22CA | MS304 | SB340 | MUR160 | MUR160 | P3100SA | TB3100L |
| MPT-22 | 1.5KE27A | MS305 | SB350 | MUR1615CT | STPRF1615CT | P3100SA | TB3100L |
| MPT-22C | 1.5KE27CA | MS306 | SB360 | MUR1620CT | STPRF1620CT | P3100SB | TB3100M |
| MPT-45 | 1.5KE56A | MS307 | SB370 | MUR1620CTR | STPRF1620CT | P3100SB | TB3100M |
| MPT-45C | 1.5KE56CA | MS308 | SB380 | MUR1640CT | STPRF1640CT | P3100SC | TB3100H |
| MPT-8 | 1.5KE10A | MS309 | SB390 | MUR1660CT | STPRF1660CT | P3100SC | TB3100H |
| MPT-8C | 1.5KE10CA | MS310 | SB3100 | MUR170 | UF1006 | P3500SA | TB3500L |
| MPT-10 | 1.5KE12A | MS345 | SB350 | MUR180 | UF1006 | P3500SA | TB3500L |
| MPT-10C | 1.5KE12CA | MS502 | SB520 | MUR190 | UF1007 | P3500SB | TB3500M |
| MPT-10C | 1.5KE12CA | MS503 | SB530 | MUR820 | STPR820DF | P3500SB | TB3500M |
| MPT-12 | 1.5KE15A | MS504 | SB540 | MUR840 | STPR840DF | P3500SC | TB3500H |
| MPT-12C | 1.5KE15CA | MS505 | SB550 | MUR860 | STPR860DF | P3500SC | TB3500H |
| MPT-15 | 1.5KE18A | MS506 | SB560 | MURB1620CT | MURB1620CT | P4FMAJ10 | SMAJ110A |
| MPT-15C | 1.5KE18CA | MS507 | SB570 | MURF1660CT | STPRF1660CT | P4FMAJ100 | SMAJ1100A |
| MPT-18 | 1.5KE22A | MS508 | SB580 | MURH840CT | STPR840DF | P4FMAJ100A | SMAJ1100A |
| MPT-18C | 1.5KE22CA | MS509 | SB590 | MURS105 | ES2A | P4FMAJ100C | SMAJ1100CA |
| MPT-18C | 1.5KE22CA | MS510 | SB5100 | MURS105T3 | ES2A | P4FMAJ100CA | SMAJ1100CA |
| MPT-22 | 1.5KE27A | MS545 | SB550 | MURS110 | ES2B | P4FMAJ110A | SMAJ110A |
| MPT-22C | 1.5KE27CA | MS825 | SB830 | MURS110T3 | ES2B | P4FMAJ110C | SMAJ110CA |
| MPT-36 | 1.5KE47A | MS830 | SB830 | MURS115 | ES2C | P4FMAJ10CA | SMAJ110CA |
| MPT-36C | 1.5KE47CA | MS835 | SB840 | MURS115T3 | ES2C | P4FMAJ11 | SMAJ111A |
| MPT-45 | 1.5KE56A | MS840 | SB840 | MURS120 | MURS120 | P4FMAJ110 | SMAJ1110A |
| MPT-45C | 1.5KE56CA | MS845 | SB845 | MURS120T3 | MURS120 | P4FMAJ110A | SMAJ1110A |
| MPT-5 | 1.5KE6.8A | MSB05 | DF005M | MURS140 | MURS140 | P4FMAJ110C | SMAJ1110CA |
| MPT-5C | 1.5KE6.8CA | MSB1 | DF01M | MURS140T3 | MURS140 | P4FMAJ110CA | SMAJ1110CA |
| MPT-8 | 1.5KE10A | MSB10 | DG10M | MURS150 | MURS160 | P4FMAJ114C | SMAJ114CA |
| MPT-8C | 1.5KE10CA | MSB2 | DF02M | MURS150T3 | MURS160 | P4FMAJ11A | SMAJ111A |
| MR751 | LT6A02 | MSB4 | DF04M | MURS160 | MURS160 | P4FMAJ11C | SMAJ111CA |
| MR752 | LT6A03 | MSB6 | DF06M | MURS160T3 | MURS160 | P4FMAJ11CA | SMAJ111CA |
| MR754 | LT6A04 | MSB8 | DF08M | MURS305 | ES3AB | P4FMAJ12 | SMAJ12A |
| MR756 | LT6A05 | MSG102 | SB120 | MURS305T3 | ES3AB | P4FMAJ120 | SMAJ120A |
| MR758 | LT6A06 | MSG103 | SB130 | MURS310 | ES3BB | P4FMAJ120A | SMAJ120A |
| MR760 | LT6A07 | MSG104 | SB140 | MURS310T3 | ES3BB | P4FMAJ120C | SMAJ120CA |
| MR810 | PR1001 | MSG105 | SB150 | MURS315 | ES3CB | P4FMAJ120CA | SMAJ120CA |
| MR811 | PR1002 | MSG106 | SB160 | MURS315T3 | ES3CB | P4FMAJ12A | SMAJ12A |
| MR812 | PR1003 | MSG107 | SB170 | MURS320 | MURS320 | P4FMAJ12A | SMAJ12CA |
| MR813 | PR1004 | MSG108 | SB180 | MURS320T3 | MURS320 | P4FMAJ12CA | SMAJ12CA |
| MR814 | PR1004 | MSG109 | SB190 | P0102DA | S08M02-400A | P4FMAJ13 | SMAJ13A |
| MR816 | PR1005 | MSG110 | SB1100 | P0111DA | S08U25-400A | P4FMAJ130 | SMAJ130A |
| MR817 | PR1006 | MSG120 | SB120 | P0640SA | TB0640L | P4FMAJ130A | SMAJ130A |
| MR818 | PR1007 | MSG130 | SB130 | P0640SA | TB0640L | P4FMAJ130C | SMAJ130CA |
| MR820 | PR6001 | MSG140 | SB140 | P0640SB | TB0640M | P4FMAJ130CA | SMAJ130CA |
| MR821 | PR6002 | MSG145 | SB150 | P0640SB | TB0640M | P4FMAJ13A | SMAJ13A |
| MR822 | PR6003 | MSG150 | SB150 | P0640SC | TB0640H | P4FMAJ13C | SMAJ13CA |
| MR824 | PR6004 | MSG160 | SB160 | P0640SC | TB0640H | P4FMAJ13CA | SMAJ13CA |
| MR826 | PR6005 | MSG170 | SB170 | P0720SA | TB0720L | P4FMAJ14 | SMAJ14A |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-----------|----------------|-----------|----------------|-----------|----------------|---------|
| P4FMAJ14A | SMAJ14A | P4FMAJ6.5C | SMAJ6.5CA | P5KE45CA | SA45CA | PBYR745 | MBR745 |
| P4FMAJ14CA | SMAJ14CA | P4FMAJ6.5CA | SMAJ6.5CA | P5KE48 | SA48A | PBYR750 | MBR750 |
| P4FMAJ15 | SMAJ15A | P4FMAJ60 | SMAJ60A | P5KE48A | SA48A | PBYR760 | MBR760 |
| P4FMAJ150 | SMAJ150A | P4FMAJ60A | SMAJ60A | P5KE48C | SA48CA | RB050L-40 | B340A |
| P4FMAJ150A | SMAJ150A | P4FMAJ60C | SMAJ60CA | P5KE48CA | SA48CA | RB051L-40 | B340A |
| P4FMAJ150C | SMAJ150CA | P4FMAJ60CA | SMAJ60CA | P5KE5.0 | SA5.0A | RB060L-40 | B240A |
| P4FMAJ150CA | SMAJ150CA | P4FMAJ64 | SMAJ64A | P5KE5.0A | SA5.0A | RB081L-20 | B220B |
| P4FMAJ15A | SMAJ15A | P4FMAJ64A | SMAJ64A | P5KE5.0C | SA5.0CA | RB151 | W005G |
| P4FMAJ15C | SMAJ15CA | P4FMAJ64C | SMAJ64CA | P5KE5.0CA | SA5.0CA | RB152 | W01G |
| P4FMAJ15CA | SMAJ15CA | P4FMAJ64CA | SMAJ64CA | P5KE51 | SA51A | RB153 | W02G |
| P4FMAJ16 | SMAJ16A | P4FMAJ7.0 | SMAJ7.0A | P5KE51A | SA51A | RB154 | W04G |
| P4FMAJ160 | SMAJ160A | P4FMAJ7.0A | SMAJ7.0A | P5KE51C | SA51CA | RB155 | W06G |
| P4FMAJ160A | SMAJ160A | P4FMAJ7.0C | SMAJ7.0CA | P5KE51CA | SA51CA | RB156 | W08G |
| P4FMAJ160C | SMAJ160CA | P4FMAJ7.0CA | SMAJ7.0CA | P5KE54 | SA54A | RB157 | W10G |
| P4FMAJ160CA | SMAJ160CA | P4FMAJ7.5 | SMAJ7.5A | P5KE54A | SA54A | RB160L-40 | B140 |
| P4FMAJ16A | SMAJ16A | P4FMAJ7.5A | SMAJ7.5A | P5KE54C | SA54CA | RB160L-60 | B160 |
| P4FMAJ16C | SMAJ16CA | P4FMAJ7.5C | SMAJ7.5CA | P5KE54CA | SA54CA | RB161L-40 | B140 |
| P4FMAJ16CA | SMAJ16CA | P4FMAJ7.5CA | SMAJ7.5CA | P5KE58 | SA58A | RGF1A | RS1AB |
| P4FMAJ17 | SMAJ17A | P4FMAJ70 | SMAJ70A | P5KE58A | SA58A | RGF1B | RS1BB |
| P4FMAJ170 | SMAJ170A | P4FMAJ70A | SMAJ70A | P5KE58C | SA58CA | RGF1D | RS1DB |
| P4FMAJ170A | SMAJ170A | P4FMAJ70C | SMAJ70CA | P5KE58CA | SA58CA | RGF1G | RS1GB |
| P4FMAJ170C | SMAJ170CA | P4FMAJ70CA | SMAJ70CA | P5KE6.0 | SA6.0A | RGF1J | RS1JB |
| P4FMAJ170CA | SMAJ170CA | P4FMAJ75 | SMAJ75A | P5KE6.0A | SA6.0A | RGF1K | RS1KB |
| P4FMAJ17A | SMAJ17A | P4FMAJ75A | SMAJ75A | P5KE6.0C | SA6.0CA | RGF1M | RS1MB |
| P4FMAJ17C | SMAJ17CA | P4FMAJ75C | SMAJ75CA | P5KE6.0CA | SA6.0CA | RGF10A | PR1001G |
| P4FMAJ17CA | SMAJ17CA | P4FMAJ75CA | SMAJ75CA | P5KE6.5 | SA6.5A | RGF10B | PR1002G |
| P4FMAJ18 | SMAJ18A | P4FMAJ78 | SMAJ78A | P5KE6.5A | SA6.5A | RGF10D | PR1003G |
| P4FMAJ18A | SMAJ18A | P4FMAJ78A | SMAJ78A | P5KE6.5C | SA6.5CA | RGF10J | PR1004G |
| P4FMAJ18C | SMAJ18CA | P4FMAJ78C | SMAJ78CA | P5KE6.5CA | SA6.5CA | RGF10G | PR1005G |
| P4FMAJ18CA | SMAJ18CA | P4FMAJ78CA | SMAJ78CA | P5KE60 | SA60A | RGF10M | PR1007G |
| P4FMAJ20 | SMAJ20A | P4FMAJ8.0 | SMAJ8.0A | P5KE60A | SA60A | RGF1A | PR1001G |
| P4FMAJ20A | SMAJ20A | P4FMAJ8.0A | SMAJ8.0A | P5KE60C | SA60CA | RGF1B | PR1002G |
| P4FMAJ20C | SMAJ20CA | P4FMAJ8.0C | SMAJ8.0CA | P5KE60CA | SA60CA | RGF1D | PR1003G |
| P4FMAJ20CA | SMAJ20CA | P4FMAJ8.0CA | SMAJ8.0CA | P5KE64 | SA64A | RGF1G | PR1004G |
| P4FMAJ22 | SMAJ22A | P4FMAJ8.5 | SMAJ8.5A | P5KE64A | SA64A | RGF1J | PR1005G |
| P4FMAJ22A | SMAJ22A | P4FMAJ8.5A | SMAJ8.5A | P5KE64C | SA64CA | RGF1K | PR1006G |
| P4FMAJ22C | SMAJ22CA | P4FMAJ8.5C | SMAJ8.5CA | P5KE64CA | SA64CA | RGF1M | PR1007G |
| P4FMAJ22CA | SMAJ22CA | P4FMAJ8.5CA | SMAJ8.5CA | P5KE7.0 | SA7.0A | RL101 | 1N4001L |
| P4FMAJ24 | SMAJ24A | P4FMAJ85 | SMAJ85A | P5KE7.0A | SA7.0A | RL101F | 1N4001L |
| P4FMAJ24A | SMAJ24A | P4FMAJ85A | SMAJ85A | P5KE7.0C | SA7.0CA | RL102 | 1N4002L |
| P4FMAJ24C | SMAJ24CA | P4FMAJ85C | SMAJ85CA | P5KE7.0CA | SA7.0CA | RL102F | PR1002L |
| P4FMAJ24CA | SMAJ24CA | P4FMAJ85CA | SMAJ85CA | P5KE70 | SA70A | RL103 | 1N4003L |
| P4FMAJ26 | SMAJ26A | P4FMAJ9.0 | SMAJ9.0A | P5KE70A | SA70A | RL103F | PR1003L |
| P4FMAJ26A | SMAJ26A | P4FMAJ9.0A | SMAJ9.0A | P5KE70C | SA70CA | RL104 | 1N4004L |
| P4FMAJ26C | SMAJ26CA | P4FMAJ9.0C | SMAJ9.0CA | P5KE70CA | SA70CA | RL104F | PR1004L |
| P4FMAJ26CA | SMAJ26CA | P4FMAJ9.0CA | SMAJ9.0CA | P5KE75 | SA75A | RL105 | 1N4005L |
| P4FMAJ28 | SMAJ28A | P4FMAJ90 | SMAJ90A | P5KE75A | SA75A | RL105F | PR1005L |
| P4FMAJ28A | SMAJ28A | P4FMAJ90A | SMAJ90A | P5KE75C | SA75CA | RL106 | 1N4006L |
| P4FMAJ28C | SMAJ28CA | P4FMAJ90C | SMAJ90CA | P5KE75CA | SA75CA | RL106F | PR1006L |
| P4FMAJ28CA | SMAJ28CA | P4FMAJ90CA | SMAJ90CA | P5KE8.0 | SA8.0A | RL107 | 1N4007L |
| P4FMAJ30 | SMAJ30A | P4KE100A | P4KE100A | P5KE8.0A | SA8.0A | RL107F | PR1007L |
| P4FMAJ30A | SMAJ30A | P4KE100CA | P4KE100CA | P5KE8.0C | SA8.0CA | RL151 | 1N5391 |
| P4FMAJ30C | SMAJ30CA | P4KE10A | P4KE10A | P5KE8.0CA | SA8.0CA | RL151G | 1N5391G |
| P4FMAJ30CA | SMAJ30CA | P4KE10CA | P4KE10CA | P5KE8.5 | SA8.5A | RL152 | 1N5392 |
| P4FMAJ33 | SMAJ33A | P4KE110A | P4KE110A | P5KE8.5A | SA8.5A | RL152G | 1N5392G |
| P4FMAJ33A | SMAJ33A | P4KE110CA | P4KE110CA | P5KE8.5C | SA8.5CA | RL153 | 1N5393 |
| P4FMAJ33C | SMAJ33CA | P4KE11A | P4KE11A | P5KE8.5CA | SA8.5CA | RL153G | 1N5393G |
| P4FMAJ33CA | SMAJ33CA | P4KE11CA | P4KE11CA | P5KE85 | SA85A | RL154 | 1N5395 |
| P4FMAJ36 | SMAJ36A | P4KE120A | P4KE120A | P5KE85A | SA85A | RL154G | 1N5395G |
| P4FMAJ36A | SMAJ36A | P4KE120CA | P4KE120CA | P5KE85C | SA85CA | RL155 | 1N5397 |
| P4FMAJ36C | SMAJ36CA | P4KE12A | P4KE12A | P5KE85CA | SA85CA | RL155G | 1N5397G |
| P4FMAJ36CA | SMAJ36CA | P4KE12CA | P4KE12CA | P5KE9.0 | SA9.0A | RL156 | 1N5398 |
| P4FMAJ40 | SMAJ40A | P4KE130A | P4KE130A | P5KE9.0A | SA9.0A | RL156G | 1N5398G |
| P4FMAJ40A | SMAJ40A | P4KE130CA | P4KE130CA | P5KE9.0C | SA9.0CA | RL157 | 1N5399 |
| P4FMAJ40C | SMAJ40CA | P4KE13A | P4KE13A | P5KE9.0CA | SA9.0CA | RL157G | 1N5399G |
| P4FMAJ40CA | SMAJ40CA | P4KE13CA | P4KE13CA | P5KE90 | SA90A | RL1N4001 | 1N4001L |
| P4FMAJ43 | SMAJ43A | P4KE150A | P4KE150A | P5KE90A | SA90A | RL1N4002 | 1N4002L |
| P4FMAJ43A | SMAJ43A | P4KE150CA | P4KE150CA | P5KE90C | SA90CA | RL1N4003 | 1N4003L |
| P4FMAJ43C | SMAJ43CA | P4KE15A | P4KE15A | P5KE90CA | SA90CA | RL1N4004 | 1N4004L |
| P4FMAJ43CA | SMAJ43CA | P4KE15CA | P4KE15CA | P600A | LT6A01 | RL1N4005 | 1N4005L |
| P4FMAJ45 | SMAJ45A | P4KE160A | P4KE160A | P600B | LT6A02 | RL1N4006 | 1N4006L |
| P4FMAJ45A | SMAJ45A | P4KE160CA | P4KE160CA | P600D | LT6A03 | RL1N4007 | 1N4007L |
| P4FMAJ45C | SMAJ45CA | P4KE16A | P4KE16A | P600G | LT6A04 | RL201 | LT2A01 |
| P4FMAJ45CA | SMAJ45CA | P4KE16CA | P4KE16CA | P600J | LT6A05 | RL201GP | LT2A01G |
| P4FMAJ48 | SMAJ48A | P4KE170A | P4KE170A | P600K | LT6A06 | RL202 | LT2A02 |
| P4FMAJ48A | SMAJ48A | P4KE170CA | P4KE170CA | P600M | LT6A07 | RL202GP | LT2A02G |
| P4FMAJ48C | SMAJ48CA | P4KE18A | P4KE18A | P6KE10 | P6KE10A | RL203 | LT2A03 |
| P4FMAJ48CA | SMAJ48CA | P4KE18CA | P4KE18CA | P6KE100 | P6KE100 | RL203GP | LT2A03G |
| P4FMAJ5.0 | SMAJ5.0A | P4KE20A | P4KE20A | P6KE100 | P6KE100 | RL204 | LT2A04 |
| P4FMAJ5.0A | SMAJ5.0A | P4KE20CA | P4KE20CA | P6KE100A | P6KE100A | RL204GP | LT2A04G |
| P4FMAJ5.0C | SMAJ5.0CA | P4KE22A | P4KE22A | P6KE100C | P6KE100CA | RL205 | LT2A05 |
| P4FMAJ5.0CA | SMAJ5.0CA | P4KE22CA | P4KE22CA | P6KE100CA | P6KE100CA | RL205GP | LT2A05G |
| P4FMAJ51 | SMAJ51A | P4KE24A | P4KE24A | P6KE10A | P6KE10A | RL206 | LT2A06 |
| P4FMAJ51A | SMAJ51A | P4KE24CA | P4KE24CA | P6KE10C | P6KE10CA | RL206GP | LT2A06G |
| P4FMAJ51C | SMAJ51CA | P4KE30A | P4KE30A | P6KE10CA | P6KE10CA | RL207 | LT2A07 |
| P4FMAJ51CA | SMAJ51CA | P4KE30CA | P4KE30CA | P6KE11 | P6KE11A | RL207GP | LT2A07G |
| P4FMAJ54 | SMAJ54A | P4KE33A | P4KE33A | P6KE110 | P6KE110A | RL251 | 1N5400 |
| P4FMAJ54A | SMAJ54A | P4KE33CA | P4KE33CA | P6KE110A | P6KE110A | RL252 | 1N5401 |
| P4FMAJ54C | SMAJ54CA | P4KE36A | P4KE36A | P6KE110C | P6KE110CA | RL253 | 1N5402 |
| P4FMAJ54CA | SMAJ54CA | P4KE36CA | P4KE36CA | P6KE110CA | P6KE110CA | RL254 | 1N5404 |
| P4FMAJ58 | SMAJ58A | P4KE43A | P4KE43A | P6KE11A | P6KE11A | RL255 | 1N5406 |
| P4FMAJ58A | SMAJ58A | P4KE43CA | P4KE43CA | P6KE11C | P6KE11CA | RL256 | 1N5407 |
| P4FMAJ58C | SMAJ58CA | P4KE51A | P4KE51A | P6KE11CA | P6KE11CA | RL257 | 1N5408 |
| P4FMAJ58CA | SMAJ58CA | P4KE51CA | P4KE51CA | P6KE12 | P6KE12A | RL500 | LT6A01 |
| P4FMAJ6.0 | SMAJ6.0A | P4KE75A | P4KE75A | P6KE120 | P6KE120A | RL501 | LT6A02 |
| P4FMAJ6.0A | SMAJ6.0A | P4KE75CA | P4KE75CA | P6KE120A | P6KE120A | RL502 | LT6A03 |
| P4FMAJ6.0C | SMAJ6.0CA | P4SMA16A | SMA16A | P6KE120C | P6KE120C | RL504 | LT6A04 |
| P4FMAJ6.0CA | SMAJ6.0CA | P5KE10 | SA10A | P6KE120C | P6KE120C | RL506 | LT6A05 |
| P4FMAJ6.5 | SMAJ6.5A | P5KE100 | SA100A | P6KE120CA | P6KE120CA | RL508 | LT6A06 |
| P4FMAJ6.5A | SMAJ6.5A | P5KE100A | SA100A | P6KE12A | P6KE12A | RL510 | LT6A07 |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-----------|----------------|-----------|----------------|------------|----------------|---------|
| P6KE12C | P6KE12CA | P6KE47A | P6KE47A | P6SMB24A | SMBJ20A | PBYR745 | MBR745 |
| P6KE12CA | P6KE12CA | P6KE47C | P6KE47CA | P6SMB24AT3 | SMBJ20A | PBYR750 | MBR750 |
| P6KE13 | P6KE13A | P6KE47CA | P6KE47CA | P6SMB24CA | SMBJ20CA | PBYR760 | MBR760 |
| P6KE130 | P6KE130 | P6KE51 | P6KE51A | P6SMB24CAT3 | SMBJ20CA | RB050L-40 | B340A |
| P6KE130 | P6KE130 | P6KE51A | P6KE51A | P6SMB27A | SMBJ24A | RB051L-40 | B340A |
| P6KE130A | P6KE130A | P6KE51C | P6KE51CA | P6SMB27AT3 | SMBJ24A | RB060L-40 | B240A |
| P6KE130C | P6KE130CA | P6KE51CA | P6KE51CA | P6SMB27CA | SMBJ24CA | RB081L-20 | B220B |
| P6KE130CA | P6KE130CA | P6KE56 | P6KE56A | P6SMB27CAT3 | SMBJ24CA | RB151 | W005G |
| P6KE13A | P6KE13A | P6KE56A | P6KE56A | P6SMB30A | SMBJ26A | RB152 | W01G |
| P6KE13C | P6KE13CA | P6KE56C | P6KE56CA | P6SMB30AT3 | SMBJ26A | RB153 | W02G |
| P6KE13CA | P6KE13CA | P6KE56CA | P6KE56CA | P6SMB30CA | SMBJ26CA | RB154 | W04G |
| P6KE15 | P6KE15A | P6KE6.8 | P6KE6.8A | P6SMB30CAT3 | SMBJ26CA | RB155 | W06G |
| P6KE150 | P6KE150A | P6KE6.8A | P6KE6.8A | P6SMB33A | SMBJ28A | RB156 | W08G |
| P6KE150A | P6KE150A | P6KE6.8C | P6KE6.8CA | P6SMB33AT3 | SMBJ28A | RB157 | W10G |
| P6KE150C | P6KE150CA | P6KE6.8CA | P6KE6.8CA | P6SMB33CA | SMBJ28CA | RB160L-40 | B140 |
| P6KE150CA | P6KE150CA | P6KE62 | P6KE62A | P6SMB33CAT3 | SMBJ28CA | RB160L-60 | B160 |
| P6KE15A | P6KE15A | P6KE62A | P6KE62A | P6SMB36A | SMBJ30A | RB161L-40 | B140 |
| P6KE15C | P6KE15CA | P6KE62C | P6KE62CA | P6SMB36AT3 | SMBJ30A | RGF1A | RS1AB |
| P6KE15CA | P6KE15CA | P6KE62CA | P6KE62CA | P6SMB36CA | SMBJ30CA | RGF1B | RS1BB |
| P6KE16 | P6KE16A | P6KE68 | P6KE68A | P6SMB36CAT3 | SMBJ30CA | RGF1D | RS1DB |
| P6KE160 | P6KE160A | P6KE68A | P6KE68A | P6SMB39A | SMBJ33A | RGF1G | RS1GB |
| P6KE160A | P6KE160A | P6KE68C | P6KE68CA | P6SMB39AT3 | SMBJ33A | RGF1J | RS1JB |
| P6KE160C | P6KE160CA | P6KE68CA | P6KE68CA | P6SMB39CA | SMBJ33CA | RGF1K | RS1KB |
| P6KE160CA | P6KE160CA | P6KE7.5 | P6KE7.5A | P6SMB39CAT3 | SMBJ33CA | RGF1M | RS1MB |
| P6KE16A | P6KE16A | P6KE7.5A | P6KE7.5A | P6SMB43A | SMBJ36A | RGPI0A | PR1001G |
| P6KE16C | P6KE16CA | P6KE7.5C | P6KE7.5CA | P6SMB43AT3 | SMBJ36A | RGPI0B | PR1002G |
| P6KE16CA | P6KE16CA | P6KE7.5CA | P6KE7.5CA | P6SMB43CA | SMBJ36CA | RGPI0D | PR1003G |
| P6KE170 | P6KE170A | P6KE75 | P6KE75A | P6SMB43CAT3 | SMBJ36CA | RGPI0G | PR1004G |
| P6KE170A | P6KE170A | P6KE75A | P6KE75A | P6SMB47A | SMBJ40A | RGPI0J | PR1005G |
| P6KE170C | P6KE170CA | P6KE75C | P6KE75CA | P6SMB47AT3 | SMBJ40A | RGPI0M | PR1007G |
| P6KE170CA | P6KE170CA | P6KE75CA | P6KE75CA | P6SMB47CA | SMBJ40CA | RGPIA | PR1001G |
| P6KE18 | P6KE18A | P6KE8.2 | P6KE8.2A | P6SMB47CAT3 | SMBJ40CA | RGPIB | PR1002G |
| P6KE180 | P6KE180A | P6KE8.2A | P6KE8.2A | P6SMB51A | SMBJ43A | RGPID | PR1003G |
| P6KE180A | P6KE180A | P6KE8.2C | P6KE8.2C | P6SMB51AT3 | SMBJ43A | RGPIG | PR1004G |
| P6KE180C | P6KE180CA | P6KE8.2C | P6KE8.2C | P6SMB51CA | SMBJ43CA | RGPIJ | PR1005G |
| P6KE180CA | P6KE180CA | P6KE8.2CA | P6KE8.2CA | P6SMB51CAT3 | SMBJ43CA | RGPIK | PR1006G |
| P6KE18A | P6KE18A | P6KE82 | P6KE82A | P6SMB56A | SMBJ48A | RGPIM | PR1007G |
| P6KE18C | P6KE18C | P6KE82A | P6KE82A | P6SMB56AT3 | SMBJ48A | RL101 | 1N4001L |
| P6KE18C | P6KE18C | P6KE82C | P6KE82CA | P6SMB56CA | SMBJ48CA | RL101F | 1N4001L |
| P6KE18CA | P6KE18CA | P6KE82CA | P6KE82CA | P6SMB56CAT3 | SMBJ48CA | RL102 | 1N4002L |
| P6KE20 | P6KE20A | P6KE9.1 | P6KE9.1A | P6SMB6.8A | SMBJ5.0A | RL102F | PR1002L |
| P6KE200 | P6KE200A | P6KE9.1A | P6KE9.1A | P6SMB6.8AT3 | SMBJ5.0A | RL103 | 1N4003L |
| P6KE200A | P6KE200A | P6KE9.1C | P6KE9.1CA | P6SMB62A | SMBJ54A | RL103F | PR1003L |
| P6KE200C | P6KE200CA | P6KE9.1CA | P6KE9.1CA | P6SMB62AT3 | SMBJ54A | RL104 | 1N4004L |
| P6KE200CA | P6KE200CA | P6KE91 | P6KE91A | P6SMB62CA | SMBJ54CA | RL104F | PR1004L |
| P6KE20A | P6KE20A | P6KE91A | P6KE91A | P6SMB62CAT3 | SMBJ54CA | RL105 | 1N4005L |
| P6KE20C | P6KE20CA | P6KE91C | P6KE91CA | P6SMB68A | SMBJ58A | RL105F | PR1005L |
| P6KE20CA | P6KE20CA | P6KE91CA | P6KE91CA | P6SMB68AT3 | SMBJ58A | RL106 | 1N4006L |
| P6KE22 | P6KE22A | P6SMB100A | SMBJ85A | P6SMB68CA | SMBJ58CA | RL106F | PR1006L |
| P6KE220 | P6KE220A | P6SMB100AT3 | SMBJ85A | P6SMB68CAT3 | SMBJ58CA | RL107 | 1N4007L |
| P6KE220A | P6KE220A | P6SMB10A | SMBJ8.5A | P6SMB7.5A | SMBJ6.5A | RL107F | PR1007L |
| P6KE220C | P6KE220CA | P6SMB10AT3 | SMBJ8.5A | P6SMB7.5AT3 | SMBJ6.5A | RL151 | 1N5391 |
| P6KE220CA | P6KE220CA | P6SMB110A | SMBJ90A | P6SMB75A | SMBJ64A | RL151G | 1N5391G |
| P6KE22A | P6KE22A | P6SMB110AT3 | SMBJ90A | P6SMB75AT3 | SMBJ64A | RL152 | 1N5392 |
| P6KE22C | P6KE22CA | P6SMB11A | SMBJ9.0A | P6SMB75CA | SMBJ64CA | RL152G | 1N5392G |
| P6KE22CA | P6KE22CA | P6SMB11AT3 | SMBJ9.0A | P6SMB75CAT3 | SMBJ64CA | RL153 | 1N5393 |
| P6KE24 | P6KE24A | P6SMB11CA | SMBJ9.0CA | P6SMB8.2A | SMBJ7.0A | RL153G | 1N5393G |
| P6KE24A | P6KE24A | P6SMB11CAT3 | SMBJ9.0CA | P6SMB8.2AT3 | SMBJ7.0A | RL154 | 1N5395 |
| P6KE24C | P6KE24CA | P6SMB120A | SMBJ100A | P6SMB82A | SMBJ70A | RL154G | 1N5395G |
| P6KE24CA | P6KE24CA | P6SMB120AT3 | SMBJ100A | P6SMB82AT3 | SMBJ70A | RL155 | 1N5397 |
| P6KE250 | P6KE250A | P6SMB12A | SMBJ10A | P6SMB82CA | SMBJ70CA | RL155G | 1N5397G |
| P6KE250A | P6KE250A | P6SMB12AT3 | SMBJ10A | P6SMB82CAT3 | SMBJ70CA | RL156 | 1N5398 |
| P6KE250C | P6KE250CA | P6SMB12CA | SMBJ10CA | P6SMB9.1A | SMBJ7.5A | RL156G | 1N5398G |
| P6KE250CA | P6KE250CA | P6SMB12CAT3 | SMBJ10CA | P6SMB9.1AT3 | SMBJ7.5A | RL157 | 1N5399 |
| P6KE27 | P6KE27A | P6SMB130A | SMBJ110A | P6SMB91A | SMBJ78A | RL157G | 1N5399G |
| P6KE27A | P6KE27A | P6SMB130AT3 | SMBJ110A | P6SMB91AT3 | SMBJ78A | RL1N4001 | 1N4001L |
| P6KE27C | P6KE27CA | P6SMB13A | SMBJ11A | P6SMB91CA | SMBJ78CA | RL1N4002 | 1N4002L |
| P6KE27CA | P6KE27CA | P6SMB13AT3 | SMBJ11A | P6SMB91CAT3 | SMBJ78CA | RL1N4003 | 1N4003L |
| P6KE30 | P6KE30A | P6SMB13CA | SMBJ11CA | PA886C02 | SBL3030PT | RL1N4004 | 1N4004L |
| P6KE300 | P6KE300A | P6SMB13CAT3 | SMBJ11CA | PBYR1030 | MBR1030 | RL1N4005 | 1N4005L |
| P6KE300A | P6KE300CA | P6SMB150A | SMBJ130A | PBYR1035 | MBR1035 | RL1N4006 | 1N4006L |
| P6KE300C | P6KE300CA | P6SMB150AT3 | SMBJ130A | PBYR1040 | MBR1040 | RL1N4007 | 1N4007L |
| P6KE300CA | P6KE30A | P6SMB15A | SMBJ13A | PBYR1045 | MBR1045 | RL201 | LT2A01 |
| P6KE30A | P6KE30A | P6SMB15AT3 | SMBJ13A | PBYR1050 | MBR1050 | RL201GP | LT2A01G |
| P6KE30C | P6KE30C | P6SMB15CA | SMBJ13CA | PBYR1060 | MBR1060 | RL202 | LT2A02 |
| P6KE30C | P6KE30C | P6SMB15CAT3 | SMBJ13CA | PBYR1530CT | MBR1530CT | RL202GP | LT2A02G |
| P6KE30CA | P6KE30CA | P6SMB160A | SMBJ130A | PBYR1535CT | MBR1535CT | RL203 | LT2A03 |
| P6KE33 | P6KE33A | P6SMB160AT3 | SMBJ130A | PBYR1540CT | MBR1540CT | RL203GP | LT2A03G |
| P6KE33A | P6KE33A | P6SMB16A | SMBJ14A | PBYR1545CT | MBR1545CT | RL204 | LT2A04 |
| P6KE33C | P6KE33CA | P6SMB16AT3 | SMBJ14A | PBYR1550CT | MBR1550CT | RL204GP | LT2A04G |
| P6KE33CA | P6KE33CA | P6SMB16CA | SMBJ14CA | PBYR1560CT | MBR1560CT | RL205 | LT2A05 |
| P6KE350 | P6KE350A | P6SMB16CAT3 | SMBJ14CA | PBYR1630 | MBR1630 | RL205GP | LT2A05G |
| P6KE350A | P6KE350A | P6SMB170A | SMBJ150A | PBYR1635 | MBR1635 | RL206 | LT2A06 |
| P6KE350C | P6KE350CA | P6SMB170AT3 | SMBJ150A | PBYR1640 | MBR1640 | RL206GP | LT2A06G |
| P6KE350CA | P6KE350CA | P6SMB180A | SMBJ160A | PBYR1645 | MBR1645 | RL207 | LT2A07 |
| P6KE36 | P6KE36A | P6SMB180AT3 | SMBJ160A | PBYR1650 | MBR1650 | RL207GP | LT2A07G |
| P6KE36A | P6KE36A | P6SMB18A | SMBJ16A | PBYR1660 | MBR1660 | RL251 | 1N5400 |
| P6KE39 | P6KE39A | P6SMB18AT3 | SMBJ16A | PBYR20100CT | MBR20100CT | RL252 | 1N5401 |
| P6KE39A | P6KE39A | P6SMB18CA | SMBJ16CA | PBYR2030CT | MBR2030CT | RL253 | 1N5402 |
| P6KE39C | P6KE39CA | P6SMB18CAT3 | SMBJ16CA | PBYR2035CT | MBR2035CT | RL254 | 1N5404 |
| P6KE39CA | P6KE39CA | P6SMB200A | SMBJ170A | PBYR2040CT | MBR2040CT | RL255 | 1N5406 |
| P6KE400 | P6KE400A | P6SMB200AT3 | SMBJ170A | PBYR2045CT | MBR2045CT | RL256 | 1N5407 |
| P6KE400A | P6KE400A | P6SMB20A | SMBJ17A | PBYR2050CT | MBR2050CT | RL257 | 1N5408 |
| P6KE400C | P6KE400CA | P6SMB20AT3 | SMBJ17A | PBYR2060CT | MBR2060CT | RL500 | LT6A01 |
| P6KE400CA | P6KE400CA | P6SMB20CA | SMBJ17CA | PBYR2070CT | MBR2070CT | RL501 | LT6A02 |
| P6KE43 | P6KE43A | P6SMB20CAT3 | SMBJ17CA | PBYR2080CT | MBR2080CT | RL502 | LT6A03 |
| P6KE43A | P6KE43A | P6SMB22A | SMBJ18A | PBYR2090CT | MBR2090CT | RL504 | LT6A04 |
| P6KE43C | P6KE43CA | P6SMB22AT3 | SMBJ18A | PBYR730 | MBR730 | RL506 | LT6A05 |
| P6KE43CA | P6KE43CA | P6SMB22CA | SMBJ18CA | PBYR735 | MBR735 | RL508 | LT6A06 |
| P6KE47 | P6KE47A | P6SMB22CAT3 | SMBJ18CA | PBYR740 | MBR740 | RL510 | LT6A07 |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|----------------|----------------|-----------|----------------|---------|----------------|---------|
| RL750 | LT6A01 | S20SC4M | SBL3040PT | SA170 | SA170A | SA64 | SA64A |
| RL751 | LT6A02 | S210 | B2100 | SA170A | SA170A | SA64 | SA64A |
| RL752 | LT6A03 | S25SC6M | SBL3060PT | SA170C | SA170CA | SA64A | SA64A |
| RL754 | LT6A04 | S2A | S2A | SA170CA | SA170CA | SA64A | SA64A |
| RL756 | LT6A05 | S2AA | S2AA | SA17A | SA17A | SA64C | SA64CA |
| RL801 | STPR805DF | S2B | S2B | SA17C | SA17CA | SA64C | SA64CA |
| RL802 | STPR810DF | S2BA | S2BA | SA17CA | SA17CA | SA64CA | SA64CA |
| RL803 | STPR820DF | S2D | S2D | SA18 | SA18A | SA64CA | SA64CA |
| RL804 | STPR840DF | S2DA | S2DA | SA18A | SA18A | SA7.0 | SA7.0A |
| RL805 | STPR860DF | S2G | S2G | SA18C | SA18CA | SA7.0 | SA7.0A |
| RL820 | PR6001 | S2GA | S2GA | SA18CA | SA18CA | SA7.0A | SA7.0A |
| RL821 | PR6002 | S2J | S2J | SA20 | SA20A | SA7.0A | SA7.0A |
| RL822 | PR6003 | S2JA | S2JA | SA20A | SA20A | SA7.0C | SA7.0CA |
| RL824 | PR6004 | S2K | S2K | SA20C | SA20CA | SA7.0C | SA7.0CA |
| RL826 | PR6005 | S2KA | S2KA | SA20CA | SA20CA | SA7.0CA | SA7.0CA |
| RPG10K | PR1006G | S2M | S2M | SA22 | SA22A | SA7.0CA | SA7.0CA |
| RS101 | KBP005G | S2MA | S2MA | SA22A | SA22A | SA70 | SA70A |
| RS102 | KBP01G | S2S6M | SB360 | SA22C | SA22CA | SA70 | SA70A |
| RS103 | KBP02G | S30SC4M | SBL6040PT | SA22CA | SA22CA | SA70A | SA70A |
| RS104 | KBP04G | S310 | B3100 | SA24 | SA24A | SA70A | SA70A |
| RS105 | KBP06G | S397D | B260A | SA24A | SA24A | SA70C | SA70CA |
| RS106 | KBP08G | S3A | S3A | SA24C | SA24CA | SA70C | SA70CA |
| RS107 | KBP10G | S3AB | S3AB | SA24CA | SA24CA | SA70CA | SA70CA |
| RS151 | W005G | S3B | S3B | SA28 | SA28A | SA70CA | SA70CA |
| RS152 | W01G | S3BB | S3BB | SA28A | SA28A | SA75 | SA75A |
| RS153 | W02G | S3D | S3D | SA28C | SA28CA | SA75 | SA75A |
| RS154 | W04G | S3DB | S3DB | SA28CA | SA28CA | SA75A | SA75A |
| RS155 | W06G | S3G | S3G | SA30 | SA30A | SA75A | SA75A |
| RS156 | W08G | S3GB | S3GB | SA30A | SA30A | SA75C | SA75CA |
| RS157 | W10G | S3J | S3J | SA30C | SA30CA | SA75C | SA75CA |
| RS1A | RS1A | S3JB | S3JB | SA30CA | SA30CA | SA75CA | SA75CA |
| RS1B | RS1B | S3K | S3K | SA33 | SA33A | SA75CA | SA75CA |
| RS1D | RS1D | S3KB | S3KB | SA33A | SA33A | SA8.0 | SA8.0A |
| RS1G | RS1G | S3M | S3M | SA33C | SA33CA | SA8.0 | SA8.0A |
| RS1J | RS1J | S3MB | S3MB | SA33CA | SA33CA | SA8.0A | SA8.0A |
| RS1K | RS1K | S5AC | S5AC | SA36 | SA36A | SA8.0A | SA8.0A |
| RS1M | RS1M | S5BC | S5BC | SA36A | SA36A | SA8.0C | SA8.0CA |
| RS201 | KBP2005G | S5DC | S5DC | SA36C | SA36CA | SA8.0C | SA8.0CA |
| RS201L | KBP005G | S5GC | S5GC | SA36CA | SA36CA | SA8.0CA | SA8.0CA |
| RS202 | KBP201G | S5JC | S5JC | SA40 | SA40A | SA8.0CA | SA8.0CA |
| RS202L | KBP01G | S5KC | S5KC | SA40A | SA40A | SA8.5 | SA8.5A |
| RS203 | KBP202G | S5MC | S5MC | SA40C | SA40CA | SA8.5 | SA8.5A |
| RS203L | KBP02G | S5S4M | SBL540 | SA40CA | SA40CA | SA8.5A | SA8.5A |
| RS204 | KBP204G | S60SC3ML | SBL6030PT | SA43 | SA43A | SA8.5A | SA8.5A |
| RS204L | KBP04G | S60SC4ML | SBL6040PT | SA43A | SA43A | SA8.5C | SA8.5CA |
| RS205 | KBP206G | S60SC6ML | SBL6060PT | SA43C | SA43CA | SA8.5C | SA8.5CA |
| RS205L | KBP06G | SA01C | SA01CA | SA43CA | SA43CA | SA8.5CA | SA8.5CA |
| RS206 | KBP208G | SA10 | SA10A | SA45 | SA45A | SA8.5CA | SA8.5CA |
| RS206L | KBP08G | SA100 | SA100A | SA45A | SA45A | SA85 | SA85A |
| RS207 | KBP210G | SA100A | SA100A | SA45C | SA45CA | SA85 | SA85A |
| RS207L | KBP10G | SA100C | SA100CA | SA45CA | SA45CA | SA85A | SA85A |
| RS401L | PBL401/GBL4005 | SA100CA | SA100CA | SA48 | SA48A | SA85A | SA85A |
| RS401M | KBJ4005G | SA10A | SA10A | SA48A | SA48A | SA85C | SA85CA |
| RS402L | PBL402/GBL401 | SA10C | SA10CA | SA48C | SA48CA | SA85C | SA85CA |
| RS402M | KBJ401G | SA10CA | SA10CA | SA48CA | SA48CA | SA85CA | SA85CA |
| RS403L | PBL403/GBL402 | SA11 | SA11A | SA5.0 | SA5.0A | SA85CA | SA85CA |
| RS403M | KBJ402G | SA110 | SA110A | SA5.0A | SA5.0A | SA9.0 | SA9.0A |
| RS404L | PBL404/GBL404 | SA110A | SA110A | SA5.0C | SA5.0CA | SA9.0 | SA9.0A |
| RS404M | KBJ404G | SA110C | SA110CA | SA5.0CA | SA5.0CA | SA9.0A | SA9.0A |
| RS405L | PBL405/GBL406 | SA110CA | SA110CA | SA51 | SA51A | SA9.0A | SA9.0A |
| RS405M | KBJ406G | SA11A | SA11A | SA51A | SA51A | SA9.0C | SA9.0CA |
| RS406L | PBL406/GBL408 | SA11C | SA11CA | SA51C | SA51CA | SA9.0C | SA9.0CA |
| RS406M | KBJ408G | SA11CA | SA11CA | SA51CA | SA51CA | SA9.0CA | SA9.0CA |
| RS407L | PBL407/GBL410 | SA12 | SA12A | SA54 | SA54A | SA9.0CA | SA9.0CA |
| RS407M | KBJ410G | SA120 | SA120A | SA54A | SA54A | SA90 | SA90A |
| RS601 | GBU6005 | SA120A | SA120A | SA54C | SA54CA | SA90 | SA90A |
| RS601M | GBJ6005 | SA120C | SA120CA | SA54CA | SA54CA | SA90A | SA90A |
| RS602 | GBU601 | SA120CA | SA120CA | SA54CA | SA54CA | SA90A | SA90A |
| RS602M | GBJ601 | SA12A | SA12A | SA58 | SA58A | SA90C | SA90CA |
| RS603 | GBU602 | SA12C | SA12CA | SA58 | SA58A | SA90C | SA90CA |
| RS603M | GBJ602 | SA12CA | SA12CA | SA58A | SA58A | SA90CA | SA90CA |
| RS604 | GBU604 | SA13 | SA13A | SA58A | SA58A | SA90CA | SA90CA |
| RS604M | GBJ604 | SA130 | SA130A | SA58C | SA58CA | SA90CA | SA90CA |
| RS605 | GBU606 | SA130A | SA130A | SA58C | SA58CA | SA90CA | SA90CA |
| RS605M | GBJ606 | SA130C | SA130C | SA58CA | SA58CA | SA90CA | SA90CA |
| RS606 | GBU608 | SA130C | SA130C | SA58CA | SA58CA | SA90CA | SA90CA |
| RS606M | GBJ608 | SA130CA | SA130CA | SA6.0 | SA6.0A | SA90CA | SA90CA |
| RS607 | GBU610 | SA13A | SA13A | SA6.0 | SA6.0A | SA90CA | SA90CA |
| RS607M | GBJ610 | SA13C | SA13CA | SA6.0A | SA6.0A | SA90CA | SA90CA |
| S100 | B1100 | SA13CA | SA13CA | SA6.0A | SA6.0A | SA90CA | SA90CA |
| S15SC4M | SBL1640PT | SA14 | SA14A | SA6.0C | SA6.0CA | SA90CA | SA90CA |
| S15SCA4M | SBL3040CT | SA14A | SA14A | SA6.0C | SA6.0CA | SA90CA | SA90CA |
| S1A | S1A | SA14CA | SA14CA | SA6.0CA | SA6.0CA | SA90CA | SA90CA |
| S1AB | S1AB | SA15 | SA15A | SA6.0CA | SA6.0CA | SA90CA | SA90CA |
| S1B | S1B | SA150 | SA150A | SA6.5 | SA6.5A | SA90CA | SA90CA |
| S1BB | S1BB | SA150A | SA150A | SA6.5 | SA6.5A | SA90CA | SA90CA |
| S1D | S1D | SA150C | SA150CA | SA6.5A | SA6.5A | SA90CA | SA90CA |
| S1DB | S1DB | SA150CA | SA150CA | SA6.5A | SA6.5A | SA90CA | SA90CA |
| S1G | S1G | SA15A | SA15A | SA6.5C | SA6.5CA | SA90CA | SA90CA |
| S1GB | S1GB | SA15C | SA15CA | SA6.5C | SA6.5CA | SA90CA | SA90CA |
| S1J | S1J | SA15CA | SA15CA | SA6.5CA | SA6.5CA | SA90CA | SA90CA |
| S1JB | S1JB | SA16 | SA16A | SA6.5CA | SA6.5CA | SA90CA | SA90CA |
| S1K | S1K | SA160 | SA160A | SA60 | SA60A | SA90CA | SA90CA |
| S1KB | S1KB | SA160A | SA160A | SA60 | SA60A | SA90CA | SA90CA |
| S1M | S1M | SA160C | SA160CA | SA60A | SA60A | SA90CA | SA90CA |
| S1MB | S1MB | SA160CA | SA160CA | SA60A | SA60A | SA90CA | SA90CA |
| S1ZB10 | HD01 | SA16A | SA16A | SA60C | SA60CA | SA90CA | SA90CA |
| S1ZB20 | HD02 | SA16C | SA16CA | SA60C | SA60CA | SA90CA | SA90CA |
| S1ZB40 | HD04 | SA16CA | SA16CA | SA60CA | SA60CA | SA90CA | SA90CA |
| S1ZB60 | HD06 | SA17 | SA17A | SA60CA | SA60CA | SA90CA | SA90CA |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-----------|----------------|------------|----------------|-----------|----------------|-----------|
| SB140 | SB140 | SBL2050CT | SBL2050CT | SF5400 | SF30AG | SM4006TR | S1KB |
| SB150 | SB150 | SBL2050PT | SBL2050PT | SF5401 | SF30BG | SM4007TR | S1MB |
| SB150 | SB150 | SBL2060CT | SBL2060CT | SF5402 | SF30DG | SM4T10 | SMAJ8.5A |
| SB160 | SB160 | SBL2060PT | SBL2060PT | SF5403 | SF30FG | SM4T100 | SMAJ85A |
| SB160 | SB160 | SBL3030PT | SBL3030PT | SF5404 | SF30GG | SM4T100A | SMAJ85A |
| SB170 | SB170 | SBL3035PT | SBL3035PT | SF5405 | SF30HG | SM4T100C | SMAJ85CA |
| SB170 | SB170 | SBL3040PT | SBL3040PT | SF5406 | SF30JG | SM4T100CA | SMAJ85CA |
| SB180 | SB180 | SBL3045PT | SBL3045PT | SF5407 | SF30KG | SM4T10A | SMAJ8.5A |
| SB180 | SB180 | SBL3050PT | SBL3050PT | SF5408 | SF30MG | SM4T10C | SMAJ8.5CA |
| SB180 | SB180 | SBL3050PT | SBL3050PT | SF61 | PR6001 | SM4T10CA | SMAJ8.5CA |
| SB180 | SB180 | SBL3060PT | SBL3060PT | SF62 | PR6002 | SM4T12 | SMAJ10A |
| SB190 | SB190 | SBL4030PT | SBL4030PT | SF63 | PR6003 | SM4T12A | SMAJ10A |
| SB190 | SB190 | SBL4035PT | SBL4035PT | SF64 | PR6003 | SM4T12C | SMAJ10CA |
| SB200 | SB2100 | SBL4040PT | SBL4040PT | SF81 | STPR805DF | SM4T12CA | SMAJ10CA |
| SB200 | SB2100 | SBL4045PT | SBL4045PT | SF82 | STPR810DF | SM4T15 | SMAJ13A |
| SB2100 | SB2100 | SBL4050PT | SBL4050PT | SF83 | STPR815DF | SM4T150 | SMAJ130A |
| SB2100 | SB2100 | SBL4060PT | SBL4060PT | SF84 | STPR820DF | SM4T150A | SMAJ130A |
| SB220 | SB220 | SBL530 | SBL530 | SF85 | STPR830DF | SM4T150C | SMAJ130CA |
| SB220 | SB220 | SBL535 | SBL535 | SF86 | STPR840DF | SM4T150CA | SMAJ130CA |
| SB230 | SB230 | SBL540 | SBL540 | SK110 | B1100LB | SM4T15A | SMAJ13A |
| SB230 | SB230 | SBL545 | SBL545 | SK12 | B120B | SM4T15C | SMAJ13CA |
| SB240 | SB240 | SBL550 | SBL550 | SK13 | B130LB | SM4T15CA | SMAJ13CA |
| SB240 | SB240 | SBL560 | SBL560 | SK14 | B140B | SM4T18 | SMAJ15A |
| SB250 | SB250 | SBL830 | SBL830 | SK15 | B150B | SM4T18A | SMAJ15A |
| SB250 | SB250 | SBL835 | SBL835 | SK16 | B160B | SM4T18C | SMAJ15CA |
| SB260 | SB260 | SBL840 | SBL840 | SK17 | B170B | SM4T18CA | SMAJ15CA |
| SB260 | SB260 | SBL845 | SBL845 | SK18 | B180B | SM4T200 | SMAJ170A |
| SB270 | SB270 | SBL850 | SBL850 | SK19 | B190B | SM4T200A | SMAJ170A |
| SB270 | SB270 | SBL860 | SBL860 | SK225 | B230 | SM4T200C | SMAJ170CA |
| SB280 | SB280 | SBLB1030 | SBG1030CT | SK32 | B320 | SM4T200CA | SMAJ170CA |
| SB280 | SB280 | SBLB1030CT | SBG1030CT | SK32B | B320B | SM4T22 | SMAJ18A |
| SB290 | SB290 | SBLB1035 | SBG1035CT | SK33 | B330 | SM4T22A | SMAJ18A |
| SB290 | SB290 | SBLB1035CT | SBG1035CT | SK33B | B330B | SM4T22C | SMAJ18CA |
| SB300 | SB3100 | SBLB1040 | SBG1040CT | SK34 | B340 | SM4T22CA | SMAJ18CA |
| SB300 | SB3100 | SBLB1040CT | SBG1040CT | SK34B | B340B | SM4T24 | SMAJ20A |
| SB3100 | SB3100 | SBLB1045 | SBG1045CT | SK35 | B350 | SM4T24A | SMAJ20A |
| SB3100 | SB3100 | SBLB1045CT | SBG1045CT | SK35B | B350B | SM4T24C | SMAJ20CA |
| SB320 | SB320 | SBLB1630CT | SBG1630CT | SK36 | B360 | SM4T24CA | SMAJ20CA |
| SB320 | SB320 | SBLB1635CT | SBG1635CT | SK36B | B360B | SM4T27 | SMAJ24A |
| SB330 | SB330 | SBLB1640CT | SBG1640CT | SK38 | B380 | SM4T27A | SMAJ24A |
| SB330 | SB330 | SBLB1645CT | SBG1645CT | SK39 | B390 | SM4T27C | SMAJ24CA |
| SB340 | SB340 | SBLB2030CT | SBG2030CT | SK39 | B390 | SM4T27CA | SMAJ24CA |
| SB340 | SB340 | SBLB2035CT | SBG2035CT | SL12 | B120 | SM4T30 | SMAJ26A |
| SB350 | SB350 | SBLB2040CT | SBG2040CT | SL13 | B130 | SM4T30A | SMAJ26A |
| SB350 | SB350 | SBLB2045CT | SBG2045CT | SL14 | B140 | SM4T30C | SMAJ26CA |
| SB360 | SB360 | SBLB25L20CT | SBG3030CT | SL15 | B150 | SM4T30CA | SMAJ26CA |
| SB360 | SB360 | SBLB25L25CT | SBG3030CT | SL16 | B160 | SM4T33 | SMAJ28A |
| SB370 | SB370 | SBLB25L30CT | SBG3030CT | SL17 | B170 | SM4T33A | SMAJ28A |
| SB380 | SB380 | SBYV27-100 | SF20BG | SL18 | B180 | SM4T33C | SMAJ28CA |
| SB390 | SB390 | SBYV27-150 | SF20CG | SL19 | B190 | SM4T33CA | SMAJ28CA |
| SB500 | SB5100 | SBYV27-200 | SF20DG | SL22 | B130LB | SM4T36 | SMAJ30A |
| SB5100 | SB5100 | SBYV27-50 | SF20AG | SL23 | B130LB | SM4T36A | SMAJ30A |
| SB520 | SB520 | SBYV28-100 | SF30BG | SL24 | B140B | SM4T36C | SMAJ30CA |
| SB530 | SB530 | SBYV28-150 | SF30CG | SL25 | B150B | SM4T36CA | SMAJ30CA |
| SB540 | SB540 | SBYV28-200 | SF30DG | SL26 | B160B | SM4T39 | SMAJ33A |
| SB550 | SB550 | SBYV28-50 | SF30AG | SL27 | B170B | SM4T39A | SMAJ33A |
| SB560 | SB560 | SD830 | SB830 | SL28 | B180B | SM4T39C | SMAJ33CA |
| SB570 | SB570 | SD835 | SB835 | SL29 | B190B | SM4T39CA | SMAJ33CA |
| SB580 | SB580 | SD840 | SB840 | SL42 | B520C | SM4T68 | SMAJ58A |
| SB590 | SB590 | SD845 | SB845 | SL43 | B530C | SM4T68A | SMAJ58A |
| SBG8100 | SBG8100 | SDB101 | DF005S | SL44 | B540C | SM4T68C | SMAJ58CA |
| SBG870 | SBG870 | SDB102 | DF01S | SL45 | B550C | SM4T68CA | SMAJ58CA |
| SBL1030 | SBL1030 | SDB103 | DF02S | SL46 | B560C | SM4T6V8 | SMAJ5.0A |
| SBL1030CT | SBL1030CT | SDB104 | DF04S | SM15T100A | SMCJ85A | SM4T6V8A | SMAJ5.0A |
| SBL1035 | SBL1035 | SDB105 | DF06S | SM15T100CA | SMCJ85CA | SM4T6V8C | SMAJ5.0CA |
| SBL1035CT | SBL1035CT | SDB106 | DF08S | SM15T10A | SMCJ8.5A | SM4T6V8CA | SMAJ5.0CA |
| SBL1040 | SBL1040 | SDB107 | DF10S | SM15T10CA | SMCJ8.5CA | SM4T7V5 | SMAJ6.5A |
| SBL1040CT | SBL1040CT | SF11 | SF10AG | SM15T12A | SMCJ10A | SM4T7V5A | SMAJ6.5A |
| SBL1045 | SBL1045 | SF12 | SF10BG | SM15T12CA | SMCJ10CA | SM4T7V5C | SMAJ6.5CA |
| SBL1045CT | SBL1045CT | SF13 | SF10CG | SM15T150A | SMCJ130A | SM4T7V5CA | SMAJ6.5CA |
| SBL1050 | SBL1050 | SF14 | SF10DG | SM15T150CA | SMCJ130CA | SM6T100A | SMBJ85A |
| SBL1050CT | SBL1050CT | SF15 | SF10GG | SM15T15A | SMCJ13A | SM6T100CA | SMBJ85CA |
| SBL1060 | SBL1060 | SF16 | SF10GG | SM15T15CA | SMCJ13CA | SM6T10A | SMBJ8.5A |
| SBL1060CT | SBL1060CT | SF161C | STPR1505DF | SM15T18A | SMCJ15A | SM6T10CA | SMBJ8.5CA |
| SBL1630 | SBL1630 | SF162C | STPR1510DF | SM15T18CA | SMCJ15CA | SM6T12A | SMBJ10A |
| SBL1630CT | SBL1630CT | SF163C | STPR1515DF | SM15T22A | SMCJ18A | SM6T12CA | SMBJ10CA |
| SBL1630PT | SBL1630PT | SF164C | STPR1520DF | SM15T22CA | SMCJ18CA | SM6T150A | SMBJ130A |
| SBL1635 | SBL1635 | SF18 | SF10JG | SM15T24A | SMCJ20A | SM6T150CA | SMBJ130CA |
| SBL1635CT | SBL1635CT | SF21 | SF20AG | SM15T24CA | SMCJ20CA | SM6T15A | SMBJ13A |
| SBL1635PT | SBL1635PT | SF22 | SF20BG | SM15T27A | SMCJ22A | SM6T15CA | SMBJ13CA |
| SBL1640 | SBL1640 | SF23 | SF20CG | SM15T27CA | SMCJ22CA | SM6T18A | SMBJ15A |
| SBL1640CT | SBL1640CT | SF24 | SF20DG | SM15T30A | SMCJ26A | SM6T18CA | SMBJ15CA |
| SBL1640PT | SBL1640PT | SF25 | SF20GG | SM15T30CA | SMCJ26CA | SM6T22A | SMBJ18A |
| SBL1645 | SBL1645 | SF26 | SF20GG | SM15T33A | SMCJ28A | SM6T22CA | SMBJ18CA |
| SBL1645CT | SBL1645CT | SF31 | SF30AG | SM15T33CA | SMCJ28CA | SM6T24A | SMBJ20A |
| SBL1645PT | SBL1645PT | SF310 | SF30MG | SM15T36A | SMCJ30A | SM6T24CA | SMBJ20CA |
| SBL1650 | SBL1650 | SF32 | SF30BG | SM15T36CA | SMCJ30CA | SM6T27A | SMBJ22A |
| SBL1650CT | SBL1650CT | SF33 | SF30CG | SM15T39A | SMCJ33A | SM6T27CA | SMBJ22CA |
| SBL1650PT | SBL1650PT | SF34 | SF30DG | SM15T39CA | SMCJ33CA | SM6T30A | SMBJ26A |
| SBL1660 | SBL1660 | SF35 | SF30GG | SM15T68A | SMCJ58A | SM6T30CA | SMBJ26CA |
| SBL1660CT | SBL1660CT | SF36 | SF30GG | SM15T68CA | SMCJ58CA | SM6T33A | SMBJ28A |
| SBL1660PT | SBL1660PT | SF37 | SF30JG | SM15T6V8A | SMCJ5.0A | SM6T33CA | SMBJ28CA |
| SBL2030CT | SBL2030CT | SF38 | SF30KG | SM15T6V8CA | SMCJ5.0CA | SM6T36A | SMBJ30A |
| SBL2030PT | SBL2030PT | SF4001 | SF10AG | SM15T7V5A | SMCJ6.0A | SM6T36CA | SMBJ30CA |
| SBL2035CT | SBL2035CT | SF4002 | SF10BG | SM15T7V5CA | SMCJ6.0CA | SM6T39A | SMBJ33A |
| SBL2035PT | SBL2035PT | SF4003 | SF10DG | SM4001TR | S1AB | SM6T39CA | SMBJ33CA |
| SBL2040CT | SBL2040CT | SF4004 | SF10GG | SM4002TR | S1DB | SM6T68A | SMBJ58A |
| SBL2040PT | SBL2040PT | SF4005 | SF10JG | SM4003TR | S1DB | SM6T68CA | SMBJ58CA |
| SBL2045CT | SBL2045CT | SF4006 | SF10KG | SM4004TR | S1GB | SM6T6V8A | SMBJ5.0A |
| SBL2045PT | SBL2045PT | SF4007 | SF10MG | SM4005TR | S1JB | SM6T6V8CA | SMBJ5.0CA |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|
| SM6T7V5A | SMBJ6.0A | SMAJ40A | SMAJ40A | SMBJ110CA | SMBJ110CA | SMBJ45CA | SMBJ45CA |
| SM6T7V5CA | SMBJ6.0CA | SMAJ40C | SMAJ40CA | SMBJ114C | SMBJ114CA | SMBJ48 | SMBJ48A |
| SMAJ10 | SMAJ10A | SMAJ40CA | SMAJ40CA | SMBJ11A | SMBJ11A | SMBJ48A | SMBJ48A |
| SMAJ100 | SMAJ100A | SMAJ43 | SMAJ43 | SMBJ11C | SMBJ11CA | SMBJ48C | SMBJ48CA |
| SMAJ100A | SMAJ100A | SMAJ43A | SMAJ43A | SMBJ11CA | SMBJ11CA | SMBJ48CA | SMBJ48CA |
| SMAJ100C | SMAJ100CA | SMAJ43C | SMAJ43CA | SMBJ12 | SMBJ12A | SMBJ5.0 | SMBJ5.0A |
| SMAJ100CA | SMAJ100CA | SMAJ43CA | SMAJ43CA | SMBJ120 | SMBJ120A | SMBJ5.0A | SMBJ5.0A |
| SMAJ10A | SMAJ10A | SMAJ45 | SMAJ45A | SMBJ120A | SMBJ120A | SMBJ5.0C | SMBJ5.0CA |
| SMAJ10C | SMAJ10CA | SMAJ45A | SMAJ45A | SMBJ120C | SMBJ120CA | SMBJ5.0CA | SMBJ5.0CA |
| SMAJ10CA | SMAJ10CA | SMAJ45C | SMAJ45CA | SMBJ120CA | SMBJ120CA | SMBJ51 | SMBJ51A |
| SMAJ11 | SMAJ11A | SMAJ45CA | SMAJ45CA | SMBJ12A | SMBJ12A | SMBJ51A | SMBJ51A |
| SMAJ110 | SMAJ110A | SMAJ48 | SMAJ48A | SMBJ12C | SMBJ12CA | SMBJ51C | SMBJ51CA |
| SMAJ110A | SMAJ110A | SMAJ48A | SMAJ48A | SMBJ12CA | SMBJ12CA | SMBJ51CA | SMBJ51CA |
| SMAJ110C | SMAJ110CA | SMAJ48C | SMAJ48CA | SMBJ13 | SMBJ13A | SMBJ54 | SMBJ54A |
| SMAJ110CA | SMAJ110CA | SMAJ48CA | SMAJ48CA | SMBJ130 | SMBJ130A | SMBJ54A | SMBJ54A |
| SMAJ114C | SMAJ114CA | SMAJ5.0 | SMAJ5.0A | SMBJ130A | SMBJ130A | SMBJ54C | SMBJ54CA |
| SMAJ11A | SMAJ11A | SMAJ5.0A | SMAJ5.0A | SMBJ130C | SMBJ130CA | SMBJ54CA | SMBJ54CA |
| SMAJ11C | SMAJ11CA | SMAJ5.0C | SMAJ5.0CA | SMBJ130CA | SMBJ130CA | SMBJ58 | SMBJ58A |
| SMAJ11CA | SMAJ11CA | SMAJ5.0CA | SMAJ5.0CA | SMBJ13A | SMBJ13A | SMBJ58A | SMBJ58A |
| SMAJ12 | SMAJ12A | SMAJ51 | SMAJ51A | SMBJ13C | SMBJ13CA | SMBJ58C | SMBJ58CA |
| SMAJ120 | SMAJ120A | SMAJ51A | SMAJ51A | SMBJ13CA | SMBJ13CA | SMBJ58CA | SMBJ58CA |
| SMAJ120A | SMAJ120A | SMAJ51C | SMAJ51CA | SMBJ14 | SMBJ14A | SMBJ6.0 | SMBJ6.0A |
| SMAJ120C | SMAJ120CA | SMAJ51CA | SMAJ51CA | SMBJ14A | SMBJ14A | SMBJ6.0A | SMBJ6.0A |
| SMAJ120CA | SMAJ120CA | SMAJ54 | SMAJ54A | SMBJ14C | SMBJ14CA | SMBJ6.0C | SMBJ6.0CA |
| SMAJ12A | SMAJ12A | SMAJ54A | SMAJ54A | SMBJ14CA | SMBJ14CA | SMBJ6.0CA | SMBJ6.0CA |
| SMAJ12C | SMAJ12CA | SMAJ54C | SMAJ54CA | SMBJ15 | SMBJ15A | SMBJ6.5A | SMBJ6.5A |
| SMAJ12CA | SMAJ12CA | SMAJ54CA | SMAJ54CA | SMBJ150 | SMBJ150A | SMBJ6.5A | SMBJ6.5A |
| SMAJ13 | SMAJ13A | SMAJ58 | SMAJ58A | SMBJ150A | SMBJ150A | SMBJ6.5C | SMBJ6.5CA |
| SMAJ130 | SMAJ130A | SMAJ58A | SMAJ58A | SMBJ150C | SMBJ150CA | SMBJ6.5CA | SMBJ6.5CA |
| SMAJ130A | SMAJ130A | SMAJ58C | SMAJ58CA | SMBJ150CA | SMBJ150CA | SMBJ60 | SMBJ60A |
| SMAJ130C | SMAJ130CA | SMAJ58CA | SMAJ58CA | SMBJ15A | SMBJ15A | SMBJ60A | SMBJ60A |
| SMAJ130CA | SMAJ130CA | SMAJ6.0 | SMAJ6.0A | SMBJ154A | SMBJ154A | SMBJ60C | SMBJ60CA |
| SMAJ13A | SMAJ13A | SMAJ6.0A | SMAJ6.0A | SMBJ154C | SMBJ154CA | SMBJ60CA | SMBJ60CA |
| SMAJ13C | SMAJ13CA | SMAJ6.0C | SMAJ6.0CA | SMBJ154CA | SMBJ154CA | SMBJ64 | SMBJ64A |
| SMAJ13CA | SMAJ13CA | SMAJ6.0CA | SMAJ6.0CA | SMBJ15A | SMBJ15A | SMBJ64A | SMBJ64A |
| SMAJ14 | SMAJ14A | SMAJ6.0CA | SMAJ6.0A | SMBJ15C | SMBJ15CA | SMBJ64C | SMBJ64CA |
| SMAJ14A | SMAJ14A | SMAJ6.5 | SMAJ6.5A | SMBJ15CA | SMBJ15CA | SMBJ64CA | SMBJ64CA |
| SMAJ14C | SMAJ14CA | SMAJ6.5A | SMAJ6.5A | SMBJ16 | SMBJ16A | SMBJ7.0 | SMBJ7.0A |
| SMAJ14CA | SMAJ14CA | SMAJ6.5C | SMAJ6.5CA | SMBJ160 | SMBJ160A | SMBJ7.0A | SMBJ7.0A |
| SMAJ15 | SMAJ15A | SMAJ6.5CA | SMAJ6.5CA | SMBJ160A | SMBJ160A | SMBJ7.0C | SMBJ7.0CA |
| SMAJ150 | SMAJ150A | SMAJ60 | SMAJ60A | SMBJ160C | SMBJ160CA | SMBJ7.0CA | SMBJ7.0CA |
| SMAJ150A | SMAJ150A | SMAJ60A | SMAJ60A | SMBJ160CA | SMBJ160CA | SMBJ7.5 | SMBJ7.5A |
| SMAJ150C | SMAJ150CA | SMAJ60C | SMAJ60CA | SMBJ16A | SMBJ16A | SMBJ7.5A | SMBJ7.5A |
| SMAJ150CA | SMAJ150CA | SMAJ60CA | SMAJ60CA | SMBJ16C | SMBJ16CA | SMBJ7.5C | SMBJ7.5CA |
| SMAJ15A | SMAJ15A | SMAJ64 | SMAJ64A | SMBJ16CA | SMBJ16CA | SMBJ7.5CA | SMBJ7.5CA |
| SMAJ15C | SMAJ15CA | SMAJ64A | SMAJ64A | SMBJ17 | SMBJ17A | SMBJ70A | SMBJ70A |
| SMAJ15CA | SMAJ15CA | SMAJ64C | SMAJ64CA | SMBJ170 | SMBJ170A | SMBJ70A | SMBJ70A |
| SMAJ16 | SMAJ16A | SMAJ64CA | SMAJ64CA | SMBJ170A | SMBJ170A | SMBJ70C | SMBJ70CA |
| SMAJ160 | SMAJ160A | SMAJ7.0 | SMAJ7.0A | SMBJ170C | SMBJ170CA | SMBJ70CA | SMBJ70CA |
| SMAJ160A | SMAJ160A | SMAJ7.0A | SMAJ7.0A | SMBJ170CA | SMBJ170CA | SMBJ75A | SMBJ75A |
| SMAJ160C | SMAJ160CA | SMAJ7.0C | SMAJ7.0CA | SMBJ17A | SMBJ17A | SMBJ75A | SMBJ75A |
| SMAJ160CA | SMAJ160CA | SMAJ7.0CA | SMAJ7.0CA | SMBJ17C | SMBJ17CA | SMBJ75C | SMBJ75CA |
| SMAJ16A | SMAJ16A | SMAJ7.5 | SMAJ7.5A | SMBJ17CA | SMBJ17CA | SMBJ75CA | SMBJ75CA |
| SMAJ16C | SMAJ16CA | SMAJ7.5C | SMAJ7.5CA | SMBJ18 | SMBJ18A | SMBJ78 | SMBJ78A |
| SMAJ16CA | SMAJ16CA | SMAJ7.5CA | SMAJ7.5CA | SMBJ18A | SMBJ18A | SMBJ78A | SMBJ78A |
| SMAJ17 | SMAJ17A | SMAJ70 | SMAJ70A | SMBJ18C | SMBJ18CA | SMBJ78C | SMBJ78CA |
| SMAJ170 | SMAJ170A | SMAJ70A | SMAJ70A | SMBJ18CA | SMBJ18CA | SMBJ78CA | SMBJ78CA |
| SMAJ170A | SMAJ170A | SMAJ70C | SMAJ70CA | SMBJ20 | SMBJ20A | SMBJ8.0 | SMBJ8.0A |
| SMAJ170C | SMAJ170CA | SMAJ70CA | SMAJ70CA | SMBJ20A | SMBJ20A | SMBJ8.0C | SMBJ8.0CA |
| SMAJ170CA | SMAJ170CA | SMAJ75 | SMAJ75A | SMBJ20C | SMBJ20CA | SMBJ8.0CA | SMBJ8.0CA |
| SMAJ17A | SMAJ17A | SMAJ75A | SMAJ75A | SMBJ20CA | SMBJ20CA | SMBJ8.5 | SMBJ8.5A |
| SMAJ17C | SMAJ17CA | SMAJ75C | SMAJ75CA | SMBJ22 | SMBJ22A | SMBJ8.5A | SMBJ8.5A |
| SMAJ17CA | SMAJ17CA | SMAJ75CA | SMAJ75CA | SMBJ22A | SMBJ22A | SMBJ8.5C | SMBJ8.5CA |
| SMAJ18 | SMAJ18A | SMAJ78 | SMAJ78A | SMBJ22C | SMBJ22CA | SMBJ8.5CA | SMBJ8.5CA |
| SMAJ18A | SMAJ18A | SMAJ78A | SMAJ78A | SMBJ22CA | SMBJ22CA | SMBJ85 | SMBJ85A |
| SMAJ18C | SMAJ18CA | SMAJ78C | SMAJ78CA | SMBJ24 | SMBJ24A | SMBJ85A | SMBJ85A |
| SMAJ18CA | SMAJ18CA | SMAJ78CA | SMAJ78CA | SMBJ24A | SMBJ24A | SMBJ85C | SMBJ85CA |
| SMAJ20 | SMAJ20A | SMAJ8.0 | SMAJ8.0A | SMBJ24C | SMBJ24CA | SMBJ85CA | SMBJ85CA |
| SMAJ20A | SMAJ20A | SMAJ8.0A | SMAJ8.0A | SMBJ24CA | SMBJ24CA | SMBJ9.0 | SMBJ9.0A |
| SMAJ20C | SMAJ20CA | SMAJ8.0C | SMAJ8.0CA | SMBJ26 | SMBJ26A | SMBJ9.0A | SMBJ9.0A |
| SMAJ20CA | SMAJ20CA | SMAJ8.0CA | SMAJ8.0CA | SMBJ26A | SMBJ26A | SMBJ9.0C | SMBJ9.0CA |
| SMAJ22 | SMAJ22A | SMAJ8.5 | SMAJ8.5A | SMBJ26C | SMBJ26CA | SMBJ9.0CA | SMBJ9.0CA |
| SMAJ22A | SMAJ22A | SMAJ8.5A | SMAJ8.5A | SMBJ26CA | SMBJ26CA | SMBJ90 | SMBJ90A |
| SMAJ22C | SMAJ22CA | SMAJ8.5C | SMAJ8.5CA | SMBJ28 | SMBJ28A | SMBJ90A | SMBJ90A |
| SMAJ22CA | SMAJ22CA | SMAJ8.5C | SMAJ8.5CA | SMBJ28A | SMBJ28A | SMBJ90C | SMBJ90CA |
| SMAJ24 | SMAJ24A | SMAJ8.5CA | SMAJ8.5CA | SMBJ28C | SMBJ28CA | SMBJ90CA | SMBJ90CA |
| SMAJ24A | SMAJ24A | SMAJ85 | SMAJ85A | SMBJ28CA | SMBJ28CA | SMBYW02-100 | ES2B |
| SMAJ24C | SMAJ24CA | SMAJ85A | SMAJ85A | SMBJ30 | SMBJ30A | SMBYW02-150 | ES2C |
| SMAJ24CA | SMAJ24CA | SMAJ85C | SMAJ85CA | SMBJ30A | SMBJ30A | SMBYW02-200 | ES2D |
| SMAJ26 | SMAJ26A | SMAJ85CA | SMAJ85CA | SMBJ30C | SMBJ30CA | SMBYW02-50 | ES2A |
| SMAJ26A | SMAJ26A | SMAJ9.0 | SMAJ9.0A | SMBJ30CA | SMBJ30CA | SMCJ10 | SMCJ10A |
| SMAJ26C | SMAJ26CA | SMAJ9.0A | SMAJ9.0A | SMBJ33 | SMBJ33A | SMCJ100 | SMCJ100A |
| SMAJ26CA | SMAJ26CA | SMAJ9.0C | SMAJ9.0CA | SMBJ33A | SMBJ33A | SMCJ100A | SMCJ100A |
| SMAJ28 | SMAJ28A | SMAJ9.0CA | SMAJ9.0CA | SMBJ33C | SMBJ33CA | SMCJ100C | SMCJ100CA |
| SMAJ28A | SMAJ28A | SMAJ90 | SMAJ90A | SMBJ33CA | SMBJ33CA | SMCJ100CA | SMCJ100CA |
| SMAJ28C | SMAJ28CA | SMAJ90A | SMAJ90A | SMBJ36 | SMBJ36A | SMCJ10A | SMCJ10A |
| SMAJ28CA | SMAJ28CA | SMAJ90C | SMAJ90CA | SMBJ36A | SMBJ36A | SMCJ10C | SMCJ10CA |
| SMAJ30 | SMAJ30A | SMAJ90CA | SMAJ90CA | SMBJ36C | SMBJ36CA | SMCJ10CA | SMCJ10CA |
| SMAJ30A | SMAJ30A | SMBJ100 | SMBJ100A | SMBJ36CA | SMBJ36CA | SMCJ11 | SMCJ11A |
| SMAJ30C | SMAJ30CA | SMBJ10 | SMBJ10A | SMBJ40 | SMBJ40A | SMCJ110 | SMCJ110A |
| SMAJ30CA | SMAJ30CA | SMBJ100A | SMBJ100A | SMBJ40A | SMBJ40A | SMCJ110A | SMCJ110A |
| SMAJ33 | SMAJ33A | SMBJ100C | SMBJ100CA | SMBJ40C | SMBJ40CA | SMCJ110C | SMCJ110CA |
| SMAJ33A | SMAJ33A | SMBJ100CA | SMBJ100CA | SMBJ40CA | SMBJ40CA | SMCJ110CA | SMCJ110CA |
| SMAJ33C | SMAJ33CA | SMBJ10A | SMBJ10A | SMBJ43 | SMBJ43A | SMCJ114C | SMCJ114CA |
| SMAJ33CA | SMAJ33CA | SMBJ10C | SMBJ10CA | SMBJ43A | SMBJ43A | SMCJ11A | SMCJ11A |
| SMAJ36 | SMAJ36 | SMBJ10CA | SMBJ10CA | SMBJ43C | SMBJ43CA | SMCJ11C | SMCJ11CA |
| SMAJ36A | SMAJ36A | SMBJ11 | SMBJ11A | SMBJ43CA | SMBJ43CA | SMCJ11CA | SMCJ11CA |
| SMAJ36C | SMAJ36CA | SMBJ110 | SMBJ110A | SMBJ45 | SMBJ45A | SMCJ12 | SMCJ12A |
| SMAJ36CA | SMAJ36CA | SMBJ110A | SMBJ110A | SMBJ45A | SMBJ45A | SMCJ120 | SMCJ120A |
| SMAJ40 | SMAJ40A | SMBJ110C | SMBJ110CA | SMBJ45C | SMBJ45CA | SMCJ120A | SMCJ120A |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-----------|----------------|-----------|----------------|---------|----------------|------------|
| SMCJ120C | SMCJ120CA | SMCJ54 | SMCJ54A | SMT100-140 | TB1500H | SS210 | B2100 |
| SMCJ120CA | SMCJ120CA | SMCJ54A | SMCJ54A | SMT100-200 | TB2300H | SS22 | B220 |
| SMCJ12A | SMCJ12A | SMCJ54C | SMCJ54CA | SMT100-230 | TB2600H | SS23 | B230 |
| SMCJ12C | SMCJ12CA | SMCJ54CA | SMCJ54CA | SMT100-270 | TB3100H | SS24 | B240 |
| SMCJ12CA | SMCJ12CA | SMCJ58 | SMCJ58A | SMT100-65 | TB0720H | SS25 | B250 |
| SMCJ13 | SMCJ13A | SMCJ58A | SMCJ58A | SMT50-100 | TB1100M | SS26 | B260 |
| SMCJ130 | SMCJ130A | SMCJ58C | SMCJ58CA | SMT50-120 | TB1300M | SS27 | B270 |
| SMCJ130A | SMCJ130A | SMCJ58CA | SMCJ58CA | SMT50-130 | TB1500M | SS28 | B280 |
| SMCJ130C | SMCJ130CA | SMCJ6.0 | SMCJ6.0A | SMT50-200 | TB2300M | SS29 | B290 |
| SMCJ130CA | SMCJ130CA | SMCJ6.0A | SMCJ6.0A | SMT50-220 | TB2600M | SS30 | B3100 |
| SMCJ13A | SMCJ13 | SMCJ6.0C | SMCJ6.0CA | SMT50-240 | TB2600M | SS310 | B3100 |
| SMCJ13C | SMCJ13CA | SMCJ6.0CA | SMCJ6.0CA | SMT50-270 | TB3100M | SS32 | B320 |
| SMCJ13CA | SMCJ13CA | SMCJ6.5 | SMCJ6.5A | SMT50-62 | TB0640M | SS33 | B330 |
| SMCJ14 | SMCJ14A | SMCJ6.5A | SMCJ6.5A | SMT50-68 | TB0720M | SS34 | B340 |
| SMCJ14A | SMCJ14A | SMCJ6.5C | SMCJ6.5CA | SMT50-100 | TB1100M | SS35 | B350 |
| SMCJ14CA | SMCJ14CA | SMCJ6.5CA | SMCJ6.5CA | SMT50-120 | TB1300M | SS36 | B360 |
| SMCJ15 | SMCJ15A | SMCJ60 | SMCJ60A | SMT50-130 | TB1500M | SS37 | B370 |
| SMCJ15A | SMCJ15A | SMCJ60A | SMCJ60A | SMT50-150 | TB2300M | SS38 | B380 |
| SMCJ150 | SMCJ150A | SMCJ60C | SMCJ60CA | SMT50-200 | TB2600M | SS39 | B390 |
| SMCJ150A | SMCJ150A | SMCJ60CA | SMCJ60CA | SMT50-220 | TB2600M | ST02D-170 | SA170A |
| SMCJ150C | SMCJ150CA | SMCJ64 | SMCJ64A | SMT50-240 | TB2600M | ST02D-82 | SA85A |
| SMCJ150CA | SMCJ150CA | SMCJ64A | SMCJ64A | SMT50-270 | TB3100M | ST03-58F1 | SMAJ58CA |
| SMCJ15C | SMCJ15CA | SMCJ64C | SMCJ64CA | SMT50-62 | TB0640M | ST03D-170 | SA170A |
| SMCJ15CA | SMCJ15CA | SMCJ64CA | SMCJ64CA | SMT50-68 | TB0720M | ST03D-82 | SA85A |
| SMCJ16 | SMCJ16A | SMCJ7.0 | SMCJ7.0A | SMT50-100 | TB1100M | ST04-16F1 | P6KE16CA |
| SMCJ16A | SMCJ16A | SMCJ7.0A | SMCJ7.0A | SMT50-120 | TB1300M | ST04-16F1 | SMAJ16CA |
| SMCJ160 | SMCJ160A | SMCJ7.0C | SMCJ7.0CA | SMT50-130 | TB1500M | ST04-27F1 | P6KE27CA |
| SMCJ160A | SMCJ160A | SMCJ7.0CA | SMCJ7.0CA | SMT50-150 | TB2300M | ST04-27F1 | SMAJ28CA |
| SMCJ160C | SMCJ160CA | SMCJ7.5 | SMCJ7.5A | SMT50-200 | TB2600M | STPR120A | ES1D |
| SMCJ160CA | SMCJ160CA | SMCJ7.5A | SMCJ7.5A | SMT50-220 | TB2600M | STPS1045D | SBL1045 |
| SMCJ16A | SMCJ16A | SMCJ7.5C | SMCJ7.5CA | SMT50-240 | TB2600M | STPS10L25D | SBL1030 |
| SMCJ16CA | SMCJ16CA | SMCJ7.5CA | SMCJ7.5CA | SMT50-270 | TB3100M | STPS10L25G | SBG1025L |
| SMCJ17 | SMCJ17A | SMCJ70 | SMCJ70A | SMT50-62 | TB0640M | STPS10L40CG | MBRB1540CT |
| SMCJ170 | SMCJ170A | SMCJ70A | SMCJ70A | SMT50-68 | TB0720M | STPS10L40CT | SBL1040CT |
| SMCJ170A | SMCJ170A | SMCJ70C | SMCJ70CA | SMT50-100 | TB1100M | STPS10L60D | SBL1060 |
| SMCJ170C | SMCJ170CA | SMCJ70CA | SMCJ70CA | SMT50-120 | TB1300M | STPS1545CG | MBRB1545CT |
| SMCJ170CA | SMCJ170CA | SMCJ75 | SMCJ75A | SMT50-130 | TB1500M | STPS1545CT | MBR1545CT |
| SMCJ17A | SMCJ17A | SMCJ75A | SMCJ75A | SMT50-150 | TB2300M | STPS1545D | SBL1645 |
| SMCJ17C | SMCJ17CA | SMCJ75C | SMCJ75CA | SMT50-200 | TB2600M | STPS15L25D | SBL1630 |
| SMCJ17CA | SMCJ17CA | SMCJ75CA | SMCJ75CA | SMT50-220 | TB2600M | STPS15L25G | MBRB1530CT |
| SMCJ18 | SMCJ18A | SMCJ78 | SMCJ78A | SMT50-240 | TB2600M | STPS160A | B160 |
| SMCJ180CA | SMCJ18CA | SMCJ78A | SMCJ78A | SMT50-270 | TB3100M | STPS160U | B160B |
| SMCJ18A | SMCJ18A | SMCJ78C | SMCJ78CA | SMT50-62 | TB0640M | STPS16L40CT | SBL1640CT |
| SMCJ18C | SMCJ18CA | SMCJ78CA | SMCJ78CA | SMT50-68 | TB0720M | STPS16L40CT | SBL1640CT |
| SMCJ20 | SMCJ20A | SMCJ8.0 | SMCJ8.0A | SMT50-100 | TB1100M | STPS16L40CT | SBL1640CT |
| SMCJ20A | SMCJ20A | SMCJ8.0A | SMCJ8.0A | SMT50-120 | TB1300M | STPS16L40CT | SBL1640CT |
| SMCJ20C | SMCJ20CA | SMCJ8.0C | SMCJ8.0CA | SMT50-130 | TB1500M | STPS16L40CT | SBL1640CT |
| SMCJ20CA | SMCJ20CA | SMCJ8.0CA | SMCJ8.0CA | SMT50-150 | TB2300M | STPS16L40CT | SBL1640CT |
| SMCJ22 | SMCJ22A | SMCJ8.5 | SMCJ8.5A | SMT50-200 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ22A | SMCJ22A | SMCJ8.5A | SMCJ8.5A | SMT50-220 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ22C | SMCJ22CA | SMCJ8.5C | SMCJ8.5CA | SMT50-240 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ22CA | SMCJ22CA | SMCJ8.5CA | SMCJ8.5CA | SMT50-270 | TB3100M | STPS16L40CT | SBL1640CT |
| SMCJ24 | SMCJ24A | SMCJ85 | SMCJ85A | SMT50-62 | TB0640M | STPS16L40CT | SBL1640CT |
| SMCJ24A | SMCJ24A | SMCJ85A | SMCJ85A | SMT50-68 | TB0720M | STPS16L40CT | SBL1640CT |
| SMCJ24C | SMCJ24CA | SMCJ85C | SMCJ85CA | SMT50-100 | TB1100M | STPS16L40CT | SBL1640CT |
| SMCJ24CA | SMCJ24CA | SMCJ85CA | SMCJ85CA | SMT50-120 | TB1300M | STPS16L40CT | SBL1640CT |
| SMCJ26 | SMCJ26A | SMCJ9.0 | SMCJ9.0A | SMT50-130 | TB1500M | STPS16L40CT | SBL1640CT |
| SMCJ26A | SMCJ26A | SMCJ9.0A | SMCJ9.0A | SMT50-150 | TB2300M | STPS16L40CT | SBL1640CT |
| SMCJ26C | SMCJ26CA | SMCJ9.0C | SMCJ9.0CA | SMT50-200 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ26CA | SMCJ26CA | SMCJ9.0CA | SMCJ9.0CA | SMT50-220 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ28 | SMCJ28A | SMCJ90 | SMCJ90A | SMT50-240 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ28A | SMCJ28A | SMCJ90A | SMCJ90A | SMT50-270 | TB3100M | STPS16L40CT | SBL1640CT |
| SMCJ28C | SMCJ28CA | SMCJ90C | SMCJ90CA | SMT50-62 | TB0640M | STPS16L40CT | SBL1640CT |
| SMCJ28CA | SMCJ28CA | SMCJ90CA | SMCJ90CA | SMT50-68 | TB0720M | STPS16L40CT | SBL1640CT |
| SMCJ30 | SMCJ30A | SMD101 | DF005S | SMT50-100 | TB1100M | STPS16L40CT | SBL1640CT |
| SMCJ30A | SMCJ30A | SMD102 | DF01S | SMT50-120 | TB1300M | STPS16L40CT | SBL1640CT |
| SMCJ30C | SMCJ30CA | SMD103 | DF02S | SMT50-130 | TB1500M | STPS16L40CT | SBL1640CT |
| SMCJ30CA | SMCJ30CA | SMD104 | DF04S | SMT50-150 | TB2300M | STPS16L40CT | SBL1640CT |
| SMCJ33 | SMCJ33A | SMD105 | DF06S | SMT50-200 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ33A | SMCJ33A | SMD106 | DF08S | SMT50-220 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ33C | SMCJ33CA | SMD107 | DF10S | SMT50-240 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ33CA | SMCJ33CA | SMGJ8.0A | SMBJ8.0A | SMT50-270 | TB3100M | STPS16L40CT | SBL1640CT |
| SMCJ36 | SMCJ36A | SMP100-120 | TB1300H | SMT50-62 | TB0640M | STPS16L40CT | SBL1640CT |
| SMCJ36A | SMCJ36A | SMP100-140 | TB1500H | SMT50-68 | TB0720M | STPS16L40CT | SBL1640CT |
| SMCJ36C | SMCJ36CA | SMP100-140H22 | TB1500H | SMT50-100 | TB1100M | STPS16L40CT | SBL1640CT |
| SMCJ36CA | SMCJ36CA | SMP100-200 | TB2300H | SMT50-120 | TB1300M | STPS16L40CT | SBL1640CT |
| SMCJ40 | SMCJ40A | SMP100-200H22 | TB2300H | SMT50-130 | TB1500M | STPS16L40CT | SBL1640CT |
| SMCJ40A | SMCJ40A | SMP100-230 | TB2600H | SMT50-150 | TB2300M | STPS16L40CT | SBL1640CT |
| SMCJ40C | SMCJ40CA | SMP100-230H22 | TB2600H | SMT50-200 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ40CA | SMCJ40CA | SMP100-270 | TB3100H | SMT50-220 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ43 | SMCJ43A | SMP100-270H22 | TB3100H | SMT50-240 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ43A | SMCJ43A | SMP100-65 | TB0720H | SMT50-270 | TB3100M | STPS16L40CT | SBL1640CT |
| SMCJ43C | SMCJ43CA | SMP100LC-120 | TB1300H | SMT50-62 | TB0640M | STPS16L40CT | SBL1640CT |
| SMCJ43CA | SMCJ43CA | SMP100LC-140 | TB1500H | SMT50-68 | TB0720M | STPS16L40CT | SBL1640CT |
| SMCJ45 | SMCJ45A | SMP100LC-160 | TB1800H | SMT50-100 | TB1100M | STPS16L40CT | SBL1640CT |
| SMCJ45A | SMCJ45A | SMP100LC-200 | TB2300H | SMT50-120 | TB1300M | STPS16L40CT | SBL1640CT |
| SMCJ45C | SMCJ45CA | SMP100LC-230 | TB2600H | SMT50-130 | TB1500M | STPS16L40CT | SBL1640CT |
| SMCJ45CA | SMCJ45CA | SMP100LC-270 | TB3100H | SMT50-150 | TB2300M | STPS16L40CT | SBL1640CT |
| SMCJ48 | SMCJ48A | SMP100LC-65 | TB0720H | SMT50-200 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ48A | SMCJ48A | SMP200LC-90 | TB1100H | SMT50-220 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ48C | SMCJ48CA | SMP30-100 | TA1100L | SMT50-240 | TB2600M | STPS16L40CT | SBL1640CT |
| SMCJ48CA | SMCJ48CA | SMP30-120 | TA1300L | SMT50-270 | TB3100M | STPS16L40CT | SBL1640CT |
| SMCJ5.0A | SMCJ5.0A | SMP30-130 | TA1500L | SMT50-62 | TB0640M | STPS16L40CT | SBL1640CT |
| SMCJ5.0C | SMCJ5.0CA | SMP30-200 | TA2300L | SMT50-68 | TB0720M | STPS16L40CT | SBL1640CT |
| SMCJ5.0CA | SMCJ5.0CA | SMP30-220 | TA2600L | SMT50-100 | TB1100M | STPS16L40CT | SBL1640CT |
| SMCJ51 | SMCJ51A | SMP30-240 | TA3100L | SMT50-120 | TB1300M | STPS16L40CT | SBL1640CT |
| SMCJ51A | SMCJ51A | SMP30-270 | TA3500L | SMT50-130 | TB1500M | STPS16L40CT | SBL1640CT |
| SMCJ51C | SMCJ51CA | SMP30-62 | TA0640L | SMT50-150 | TB2300M | STPS16L40CT | SBL1640CT |
| SMCJ51CA | SMCJ51CA | SMP30-68 | TA0720L | SMT50-200 | TB2600M | STPS16L40CT | SBL1640CT |
| | | SMT100-120 | TB1300H | SMT50-220 | TB2600M | STPS16L40CT | SBL1640CT |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|-------------|----------------|-----------|----------------|-----------|----------------|-------------|
| STPS745G | MBRB1545CT | TFMCJ36C | SMCJ36CA | TISP4070M3 | TB0640M | TPSMB33 | SMBJ26A |
| SUF15G | SF20GG | TFMCJ36CA | SMCJ36CA | TISP4080H3 | TB0720H | TPSMB33A | SMBJ28A |
| SUF15J | SF20JG | TFMCJ40 | SMCJ40A | TISP4080M3 | TB0720M | TPSMB36 | SMBJ30A |
| SUF30G | SF30GG | TFMCJ40A | SMCJ40A | TISP4095H3 | TB0900H | TPSMB36A | SMBJ30A |
| SUF30J | SF30JG | TFMCJ40C | SMCJ40CA | TISP4095M3 | TB0900M | TPSMB39 | SMBJ33A |
| T2800D | T8M25F-600B | TFMCJ40CA | SMCJ40CA | TISP4125H3 | TB1100H | TPSMB39A | SMBJ33A |
| TFMCJ10 | SMCJ10A | TFMCJ43 | SMCJ43A | TISP4125M3 | TB1100M | TPSMB43 | SMBJ36A |
| TFMCJ100 | SMCJ100A | TFMCJ43A | SMCJ43A | TISP4145H3 | TB1300H | TPSMB43A | SMBJ36A |
| TFMCJ100A | SMCJ100A | TFMCJ43C | SMCJ43CA | TISP4145M3 | TB1300M | TPSMB6.8 | SMBJ5.0A |
| TFMCJ100C | SMCJ100CA | TFMCJ43CA | SMCJ43CA | TISP4165H3 | TB1300H | TPSMB6.8A | SMBJ5.0A |
| TFMCJ100CA | SMCJ100CA | TFMCJ45 | SMCJ45A | TISP4165M3 | TB1300M | TPSMB7.5 | SMBJ5.0A |
| TFMCJ10A | SMCJ10A | TFMCJ45A | SMCJ45A | TISP4180H3 | TB1500H | TPSMB7.5A | SMBJ6.0A |
| TFMCJ10C | SMCJ10CA | TFMCJ45C | SMCJ45CA | TISP4180M3 | TB1500M | TPSMB8.2 | SMBJ6.5A |
| TFMCJ10CA | SMCJ10CA | TFMCJ45CA | SMCJ45CA | TISP4200H3 | TB1800H | TPSMB8.2A | SMBJ7.0A |
| TFMCJ11 | SMCJ11A | TFMCJ48 | SMCJ48A | TISP4200M3 | TB1800M | TPSMB9.1 | SMBJ7.5A |
| TFMCJ110 | SMCJ110A | TFMCJ48A | SMCJ48A | TISP4265H3 | TB2300H | TPSMB9.1A | SMBJ7.5A |
| TFMCJ110A | SMCJ110A | TFMCJ48C | SMCJ48CA | TISP4265M3 | TB2300M | TPSMC10 | SMCJ8.0A |
| TFMCJ110C | SMCJ110CA | TFMCJ48CA | SMCJ48CA | TISP4300H3 | TB2600H | TPSMC10A | SMCJ8.5A |
| TFMCJ110CA | SMCJ110CA | TFMCJ5.0 | SMCJ5.0A | TISP4300M3 | TB2600M | TPSMC11 | SMCJ9.0A |
| TFMCJ114C | SMCJ110CA | TFMCJ5.0A | SMCJ5.0A | TISP4350H3 | TB3100H | TPSMC11A | SMCJ9.0A |
| TFMCJ11A | SMCJ11A | TFMCJ5.0C | SMCJ5.0CA | TISP4350L3 | TB3100L | TPSMC12 | SMCJ10A |
| TFMCJ11C | SMCJ11CA | TFMCJ5.0CA | SMCJ5.0CA | TISP4350M3 | TB3100M | TPSMC12A | SMCJ10A |
| TFMCJ11CA | SMCJ11CA | TFMCJ51 | SMCJ51A | TISP4400H3 | TB3500H | TPSMC13 | SMCJ11A |
| TFMCJ12 | SMCJ12A | TFMCJ51A | SMCJ51A | TISP4400M3 | TB3500M | TPSMC13A | SMCJ11A |
| TFMCJ120 | SMCJ120A | TFMCJ51C | SMCJ51CA | TMBYB10-30 | 1N5818M | TPSMC15 | SMCJ12A |
| TFMCJ120A | SMCJ120A | TFMCJ51CA | SMCJ51CA | TMBYV10-20 | 1N5817M | TPSMC15A | SMCJ13A |
| TFMCJ120C | SMCJ120CA | TFMCJ54 | SMCJ54A | TMBYV10-20A | 1N5817M | TPSMC16 | SMCJ13A |
| TFMCJ120CA | SMCJ120CA | TFMCJ54A | SMCJ54A | TMBYV10-40 | 1N5819M | TPSMC16A | SMCJ14A |
| TFMCJ12A | SMCJ12A | TFMCJ54C | SMCJ54CA | TMBYV10-60 | B160 | TPSMC18 | SMCJ15A |
| TFMCJ12C | SMCJ12CA | TFMCJ54CA | SMCJ54CA | TP801C04 | SBL1040CT | TPSMC18A | SMCJ15A |
| TFMCJ12CA | SMCJ12CA | TFMCJ58 | SMCJ58A | TP801C06 | SBL1060CT | TPSMC20 | SMCJ16A |
| TFMCJ13 | SMCJ13A | TFMCJ58A | SMCJ58A | TP802C04 | MBR1040CT | TPSMC20A | SMCJ17A |
| TFMCJ130 | SMCJ13A | TFMCJ58C | SMCJ58CA | TP802C06 | MBR1060CT | TPSMC22 | SMCJ18A |
| TFMCJ130A | SMCJ130A | TFMCJ58CA | SMCJ58CA | TP802C09 | MBR1090CT | TPSMC22A | SMCJ18A |
| TFMCJ130C | SMCJ130CA | TFMCJ6.0 | SMCJ6.0A | TP805C04 | SBL2040CT | TPSMC24 | SMCJ20A |
| TFMCJ130CA | SMCJ130CA | TFMCJ6.0A | SMCJ6.0A | TP805C06 | SBL2060CT | TPSMC24A | SMCJ20A |
| TFMCJ13A | SMCJ13A | TFMCJ6.0C | SMCJ6.0CA | TPSMA10 | SMAJ8.0A | TPSMC27 | SMCJ22A |
| TFMCJ13C | SMCJ13CA | TFMCJ6.0CA | SMCJ6.0CA | TPSMA10A | SMAJ8.5A | TPSMC27A | SMCJ22A |
| TFMCJ13CA | SMCJ13CA | TFMCJ6.5 | SMCJ6.5A | TPSMA11 | SMAJ9.0A | TPSMC30 | SMCJ24A |
| TFMCJ14 | SMCJ14A | TFMCJ6.5A | SMCJ6.5A | TPSMA11A | SMAJ9.0A | TPSMC30A | SMCJ26A |
| TFMCJ14A | SMCJ14A | TFMCJ6.5C | SMCJ6.5CA | TPSMA12 | SMAJ10A | TPSMC33 | SMCJ26A |
| TFMCJ14CA | SMCJ14CA | TFMCJ6.5CA | SMCJ6.5CA | TPSMA12A | SMAJ10A | TPSMC33A | SMCJ28A |
| TFMCJ15 | SMCJ15A | TFMCJ60 | SMCJ60A | TPSMA13 | SMAJ11A | TPSMC36 | SMCJ30A |
| TFMCJ150 | SMCJ150A | TFMCJ60A | SMCJ60A | TPSMA13A | SMAJ11A | TPSMC36A | SMCJ30A |
| TFMCJ150A | SMCJ150A | TFMCJ60C | SMCJ60CA | TPSMA15 | SMAJ12A | TPSMC39 | SMCJ33A |
| TFMCJ150C | SMCJ150CA | TFMCJ60CA | SMCJ60CA | TPSMA15A | SMAJ13A | TPSMC39A | SMCJ33A |
| TFMCJ150CA | SMCJ150CA | TFMCJ64 | SMCJ64A | TPSMA16 | SMAJ13A | TPSMC43 | SMCJ36A |
| TFMCJ15A | SMCJ15A | TFMCJ64A | SMCJ64A | TPSMA16A | SMAJ14A | TPSMC43A | SMCJ36A |
| TFMCJ15C | SMCJ15CA | TFMCJ64C | SMCJ64CA | TPSMA18 | SMAJ15A | TPSMC6.8 | SMCJ5.0A |
| TFMCJ15CA | SMCJ15CA | TFMCJ64CA | SMCJ64CA | TPSMA18A | SMAJ15A | TPSMC6.8A | SMCJ5.0A |
| TFMCJ16 | SMCJ16A | TFMCJ7.0 | SMCJ7.0A | TPSMA20 | SMAJ16A | TPSMC7.5 | SMCJ5.0A |
| TFMCJ160 | SMCJ160A | TFMCJ7.0A | SMCJ7.0A | TPSMA20A | SMAJ17A | TPSMC7.5A | SMCJ6.0A |
| TFMCJ160A | SMCJ160A | TFMCJ7.0C | SMCJ7.0CA | TPSMA22 | SMAJ18A | TPSMC8.2 | SMCJ6.5A |
| TFMCJ160C | SMCJ160CA | TFMCJ7.0CA | SMCJ7.0CA | TPSMA22A | SMAJ18A | TPSMC8.2A | SMCJ7.0A |
| TFMCJ160CA | SMCJ160CA | TFMCJ7.5 | SMCJ7.5A | TPSMA24 | SMAJ20A | TPSMC9.1 | SMCJ7.5A |
| TFMCJ16A | SMCJ16A | TFMCJ7.5A | SMCJ7.5A | TPSMA24A | SMAJ20A | TPSMC9.1A | SMCJ7.5A |
| TFMCJ16C | SMCJ16CA | TFMCJ7.5C | SMCJ7.5CA | TPSMA27 | SMAJ22A | TS802C04 | SBG1040CT |
| TFMCJ16CA | SMCJ16CA | TFMCJ7.5CA | SMCJ7.5CA | TPSMA27A | SMAJ22A | TS805C04 | SBG2040CT |
| TFMCJ17 | SMCJ17A | TFMCJ70 | SMCJ70A | TPSMA30 | SMAJ24A | TS808C04 | SBG3040CT |
| TFMCJ170 | SMCJ170A | TFMCJ70A | SMCJ70A | TPSMA30A | SMAJ26A | TS808C06 | SBG3060CT |
| TFMCJ170A | SMCJ170A | TFMCJ70C | SMCJ70CA | TPSMA33 | SMAJ26A | TS820-600T | S8M02-600B |
| TFMCJ170C | SMCJ170CA | TFMCJ70CA | SMCJ70CA | TPSMA33A | SMAJ28A | TS820-800T | S8M02-800B |
| TFMCJ170CA | SMCJ170CA | TFMCJ75 | SMCJ75A | TPSMA36 | SMAJ30A | TSMBJ1005C | TSMB1005 |
| TFMCJ17A | SMCJ17A | TFMCJ75A | SMCJ75A | TPSMA36A | SMAJ30A | TSMBJ1006C | TSMB1006 |
| TFMCJ17C | SMCJ17CA | TFMCJ75C | SMCJ75CA | TPSMA39 | SMAJ33A | TSMBJ1007C | TSMB1007 |
| TFMCJ17CA | SMCJ17CA | TFMCJ75CA | SMCJ75CA | TPSMA39A | SMAJ33A | TSMBJ1009C | TSMB1009 |
| TFMCJ18 | SMCJ18A | TFMCJ78 | SMCJ78A | TPSMA43 | SMAJ36A | TSMBJ1010C | TSMB1010 |
| TFMCJ18A | SMCJ18A | TFMCJ78A | SMCJ78A | TPSMA43A | SMAJ36A | TSMBJ1011C | TSMB1011 |
| TFMCJ18C | SMCJ18CA | TFMCJ78C | SMCJ78CA | TPSMA46.8 | SMAJ5.0A | TSMBJ1012C | TSMB1012 |
| TFMCJ18CA | SMCJ18CA | TFMCJ78CA | SMCJ78CA | TPSMA6.8A | SMAJ5.0A | TSMBJ1014C | TSMB1014 |
| TFMCJ20 | SMCJ20A | TFMCJ8.0 | SMCJ8.0A | TPSMA7.5 | SMAJ5.0A | TSMBJ1016C | TSMB1016 |
| TFMCJ20A | SMCJ20A | TFMCJ8.0A | SMCJ8.0A | TPSMA7.5A | SMAJ6.0A | TSMBJ1018C | TSMB1018 |
| TFMCJ20C | SMCJ20CA | TFMCJ8.0C | SMCJ8.0CA | TPSMA8.2 | SMAJ6.5A | TSMBJ1022C | TSMB1022 |
| TFMCJ20CA | SMCJ20CA | TFMCJ8.0CA | SMCJ8.0CA | TPSMA8.2A | SMAJ7.0A | TSMBJ1024C | TSMB1024 |
| TFMCJ22 | SMCJ22A | TFMCJ8.5 | SMCJ8.5A | TPSMA9.1 | SMAJ7.5A | TSMBJ1027C | TSMB1027 |
| TFMCJ22A | SMCJ22A | TFMCJ8.5A | SMCJ8.5A | TPSMA9.1A | SMAJ7.5A | TVB170SA | TB2300M |
| TFMCJ22C | SMCJ22CA | TFMCJ8.5C | SMCJ8.5CA | TPSMB10 | SMBJ8.0A | TVB170SC | TB2300H |
| TFMCJ22CA | SMCJ22CA | TFMCJ8.5CA | SMCJ8.5CA | TPSMB10A | SMBJ8.5A | TVB200SA | TB2600M |
| TFMCJ24 | SMCJ24A | TFMCJ85 | SMCJ85A | TPSMB11 | SMBJ9.0A | TVB200SC | TB2600H |
| TFMCJ24A | SMCJ24A | TFMCJ85A | SMCJ85A | TPSMB11A | SMBJ9.0A | TVB230-050 | TB2300M |
| TFMCJ24C | SMCJ24CA | TFMCJ85C | SMCJ85CA | TPSMB12 | SMBJ10A | TVB270SA | TB3100M |
| TFMCJ24CA | SMCJ24CA | TFMCJ85CA | SMCJ85CA | TPSMB12A | SMBJ10A | TVB270SC | TB3100H |
| TFMCJ26 | SMCJ26A | TFMCJ9.0 | SMCJ9.0A | TPSMB13 | SMBJ11A | TVB280-050 | TB2600M |
| TFMCJ26A | SMCJ26A | TFMCJ9.0A | SMCJ9.0A | TPSMB13A | SMBJ11A | TVB330-050 | TB3100M |
| TFMCJ26C | SMCJ26CA | TFMCJ9.0C | SMCJ9.0CA | TPSMB15 | SMBJ12A | TYN608 | S8M15-400B |
| TFMCJ26CA | SMCJ26CA | TFMCJ9.0CA | SMCJ9.0CA | TPSMB15A | SMBJ13A | TYN608 | S8M15-400B |
| TFMCJ28 | SMCJ28A | TFMCJ90 | SMCJ90A | TPSMB16 | SMBJ13A | TYN612 | S12M15-600B |
| TFMCJ28A | SMCJ28A | TFMCJ90A | SMCJ90A | TPSMB16A | SMBJ14A | TYN808 | S8M15-800B |
| TFMCJ28C | SMCJ28CA | TFMCJ90C | SMCJ90CA | TPSMB18 | SMBJ15A | TYN812 | S12M15-800B |
| TFMCJ28CA | SMCJ28CA | TFMCJ90CA | SMCJ90CA | TPSMB18A | SMBJ15A | UESI1001 | UF1001 |
| TFMCJ30 | SMCJ30A | TG10 | PR1007G | TPSMB20 | SMBJ16A | UESI1002 | UF1002 |
| TFMCJ30A | SMCJ30A | TG210 | PR2007G | TPSMB20A | SMBJ17A | UESI1003 | UF1003 |
| TFMCJ30C | SMCJ30CA | TG24 | PR2004 | TPSMB22 | SMBJ18A | UESI1101 | UF2001 |
| TFMCJ30CA | SMCJ30CA | TG26 | PR2005 | TPSMB22A | SMBJ18A | UESI1102 | UF2002 |
| TFMCJ33 | SMCJ33A | TG28 | PR2006G | TPSMB24 | SMBJ20A | UESI1103 | UF2003 |
| TFMCJ33A | SMCJ33A | TG4 | PR1004 | TPSMB24A | SMBJ20A | UESI1104 | UF2003 |
| TFMCJ33C | SMCJ33CA | TG6 | PR1005 | TPSMB27 | SMBJ22A | UESI1104HR2 | UF2003 |
| TFMCJ33CA | SMCJ33CA | TG8 | PR1006G | TPSMB27A | SMBJ22A | UESI1105 | UF2004 |
| TFMCJ36 | SMCJ36A | TISP4070H3 | TB0640H | TPSMB30 | SMBJ24A | UESI1105HR2 | UF2004 |
| TFMCJ36A | SMCJ36A | TISP4070L3 | TB0640L | TPSMB30A | SMBJ26A | UESI1106 | UF2004 |

| Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N | Competitor P/N | LT P/N |
|----------------|------------|----------------|------------|----------------|-------------|----------------|-------------|
| UES1301 | PR6001 | UGB18CCT | MURB1620CT | UT361 | D6G | YG801C60R | SBL1060CT |
| UES1302 | PR6002 | UGB18DCT | MURB1620CT | UT362 | D6G | YG802C04 | SBL1040CT |
| UES1303 | PR6003 | UR105 | D1G | UT363 | D7G | YG802C04R | SBL1040CT |
| UES1304 | PR6003 | UR110 | D2G | UT364 | D7G | YG802C06 | SBL1060CT |
| UES1305 | PR6004 | UR115 | D3G | UT4005 | LT6A01 | YG802C06R | SBL1060CT |
| UES1305HR2 | PR6004 | UR120 | D3G | UT4010 | LT6A02 | YG802C09 | MBR1090CT |
| UES1306 | PR6004 | UR125 | D4G | UT4020 | LT6A03 | YG802C09R | MBR1090CT |
| UES1306HR2 | PR6004 | UR205 | LT2A01 | UT4040 | LT6A04 | YG805C04 | SBL2040CT |
| UF105 | UF1001 | UR210 | LT2A02 | UT4060 | LT6A05 | YG805C04R | SBL2040CT |
| UF110 | UF1002 | UR215 | LT2A03 | UT4080 | LT6A06 | YG805C06 | SBL2060CT |
| UF115 | UF1003 | UR220 | LT2A03 | UTR01 | PR1001G | YG805C06R | SBL2060CT |
| UF120 | UF1003 | UR225 | LT2A04 | UTR02 | PR2001G | YG831C03 | SBL1030CT |
| UF130 | UF1004 | UR234 | D3G | UTR10 | PR1002G | YG831C03R | SBL1030CT |
| UF140 | UF1004 | UR236 | D2G | UTR11 | PR1002G | YG832C03R | SBL1030CT |
| UF150 | UF1005 | US1A | US1A | UTR12 | PR2002G | YG835C03R | SBL2030CT |
| UF160 | UF1005 | US1B | US1B | UTR20 | PR1003G | Z00607MA | T1M5F600A |
| UF170 | UF1006 | US1D | US1D | UTR21 | PR1003G | Z0109MN | T1M10F-600D |
| UF180 | UF1006 | US1G | US1G | UTR22 | PR2003G | Z0109NN | T1M10F-800D |
| UF305 | UF3001 | US1J | US1J | UTR2305 | PR2001 | | |
| UF310 | UF3002 | US3A | US3A | UTR2310 | PR2002 | | |
| UF315 | UF3003 | US3B | US3B | UTR2320 | PR2003 | | |
| UF320 | UF3003 | US3C | US3C | UTR2340 | PR2004 | | |
| UF330 | UF3004 | US3D | US3D | UTR2350 | PR2005 | | |
| UF340 | UF3004 | US3F | US3F | UTR2360 | PR2005 | | |
| UF350 | UF3005 | US3G | US3G | UTR30 | PR1004G | | |
| UF360 | UF3005 | USD1035A | SBL1035 | UTR31 | PR1004G | | |
| UF370 | UF3006 | USD1045A | MBR1045 | UTR32 | PR2004G | | |
| UF380 | UF3006 | USD1060 | SBL1060 | UTR3305 | PR3001 | | |
| UF4001 | UF1001 | USD1535ACT | MBR1535CT | UTR3310 | PR3002 | | |
| UF4001GP | UG1001 | USD1545ACT | MBR1545CT | UTR3320 | PR3003 | | |
| UF4002 | UF1002 | USD1635ACT | SBL1635CT | UTR3340 | PR3004 | | |
| UF4002GP | UG1002 | USD1645ACT | SBL1645CT | UTR3350 | PR3005 | | |
| UF4003 | UF1003 | USD20100CT | MBR20100CT | UTR3360 | PR3005 | | |
| UF4003GP | UG1003 | USD2035ACT | SBL2035CT | UTR40 | PR1004G | | |
| UF4004 | UF1004 | USD2045ACT | SBL2045CT | UTR41 | PR1004G | | |
| UF4004GP | UG1004 | USD2060CT | SBL2060CT | UTR42 | PR2004G | | |
| UF4005 | UF1005 | USD2070CT | MBR2070CT | UTR4305 | PR6001 | | |
| UF4005GP | UG1005 | USD2080CT | MBR2080CT | UTR4310 | PR6002 | | |
| UF4006 | UF1006 | USD2090CT | MBR2090CT | UTR4320 | PR6003 | | |
| UF4006GP | UG1006 | USD2555C | MBR2535CT | UTR4340 | PR6004 | | |
| UF4007 | UF1007 | USD3030C | SBL3030PT | UTR4350 | PR6005 | | |
| UF4007GP | UG1007 | USD3040C | SBL3040PT | UTR4360 | PR6005 | | |
| UF5400 | UG3001 | USD3045C | SBL3045PT | UTR50 | PR1005G | | |
| UF5400GP | UG3001 | USD4030C | MBR4030PT | UTR51 | PR1005G | | |
| UF5401 | UG3002 | USD4040C | MBR4040PT | UTR52 | PR2005G | | |
| UF5401GP | UG3002 | USD4045C | MBR4045PT | UTR60 | PR1005G | | |
| UF5402 | UF3003 | USD4530C | MBR6030PT | UTR61 | PR1005G | | |
| UF5402GP | UG3003 | USD4540C | MBR6040PT | UTR62 | PR2005G | | |
| UF5403 | UF3004 | USD4545C | MBR6045PT | UTX105 | UF1001 | | |
| UF5403GP | UG3004 | USD635 | SBL1635 | UTX110 | UF1002 | | |
| UF5404 | UF3004 | USD635C | SBL1635CT | UTX115 | UF1003 | | |
| UF5404GP | UG3004 | USD640 | SBL1640 | UTX120 | UF1003 | | |
| UF5405 | UF3005 | USD640C | SBL1640CT | UTX125 | UF1004 | | |
| UF5405GP | UG3005 | USD645 | SBL1645 | UTX205 | UF2001 | | |
| UF5406 | UF3005 | USD645C | SBL1645CT | UTX210 | UF2002 | | |
| UF5406GP | UG3005 | USD735 | SBL1635 | UTX215 | UF2003 | | |
| UF5407 | UF3006 | USD735C | SBL1635CT | UTX220 | UF2003 | | |
| UF5407GP | UG3006 | USD740 | SBL1640 | UTX225 | UF2004 | | |
| UF5408 | UF3007 | USD740C | SBL1640CT | UTX3105 | UF2001 | | |
| UF5408GP | UG3007 | USD745 | SBL1645 | UTX3110 | UF2002 | | |
| UFS105J | ES1A | USD745C | SBL1645CT | UTX3115 | UF2003 | | |
| UFS110J | ES1B | USD835 | SBL1635 | UTX3120 | UF2003 | | |
| UFS115J | ES1D | USD840 | SBL1640 | UTX4105 | PR6001 | | |
| UFS120J | ES1D | USD845 | SBL1645 | UTX4110 | PR6002 | | |
| UFS130J | ES1G | USD935 | SBL1635 | UTX4115 | PR6003 | | |
| UFS140J | ES1G | USD940 | SBL1640 | UTX4120 | PR6003 | | |
| UFS150J | ES1J | USD945 | SBL1645 | W005 | W005G | | |
| UFS160J | ES1J | UT2005 | LT2A01 | W005G | W005G | | |
| UFS170J | ES1K | UT2010 | LT2A02 | W005L | W005G | | |
| UFS180J | ES1K | UT2020 | LT2A03 | W005M | W005G | | |
| UFS305J | ES3AB | UT2040 | LT2A04 | W01 | W01G | | |
| UFS310J | ES3BB | UT2060 | LT2A05 | W01G | W01G | | |
| UFS315J | ES3DB | UT2080 | LT2A06 | W01L | W01G | | |
| UFS320J | ES3DB | UT235 | D4G | W01M | W01G | | |
| UFS330J | RS3G | UT237 | D5G | W02 | W02G | | |
| UFS340J | RS3G | UT238 | D5G | W02G | W02G | | |
| UFS350J | RS3J | UT242 | IN5393 | W02L | W02G | | |
| UFS360J | RS3J | UT244 | IN5395 | W02M | W02G | | |
| UFS370J | RS3K | UT245 | IN5397 | W04 | W04G | | |
| UFS380J | RS3K | UT247 | IN5397 | W04G | W04G | | |
| UG06A | SF10AG | UT249 | IN5392 | W04L | W04G | | |
| UG06B | SF10BG | UT251 | IN5392 | W04M | W04G | | |
| UG06C | SF10CG | UT252 | IN5393 | W06 | W06G | | |
| UG06D | SF10DG | UT254 | IN5395 | W06G | W06G | | |
| UG1A | SF10AG | UT255 | IN5397 | W06L | W06G | | |
| UG1B | SF10BG | UT257 | IN5397 | W06M | W06G | | |
| UG1C | SF10CG | UT258 | IN5398 | W08 | W08G | | |
| UG1D | SF10DG | UT261 | LT2A02 | W08G | W08G | | |
| UG2A | SF20AG | UT262 | LT2A03 | W08L | W08G | | |
| UG2B | SF20BG | UT264 | LT2A04 | W08M | W08G | | |
| UG2C | SF20CG | UT265 | LT2A05 | W10 | W10G | | |
| UG2D | SF20DG | UT267 | LT2A05 | W10G | W10G | | |
| UG4A | SF30AG | UT268 | LT2A06 | W10L | W10G | | |
| UG4B | SF30BG | UT3005 | IN5400 | W10M | W10G | | |
| UG4C | SF30CG | UT3010 | IN5401 | X00602MA | S08M02-600A | | |
| UG4D | SF30DG | UT3020 | IN5402 | YG801C04 | SBL1040CT | | |
| UG8HT | STPR850DF | UT3040 | IN5404 | YG801C04R | SBL1040CT | | |
| UG8JT | STPR860DF | UT3060 | IN5406 | YG801C06 | SBL1060CT | | |
| UGB18ACT | MURB1610CT | UT3080 | IN5407 | YG801C09 | MBR1090CT | | |
| UGB18BCT | MURB1610CT | UT347 | D7G | YG801C09R | MBR1090CT | | |

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