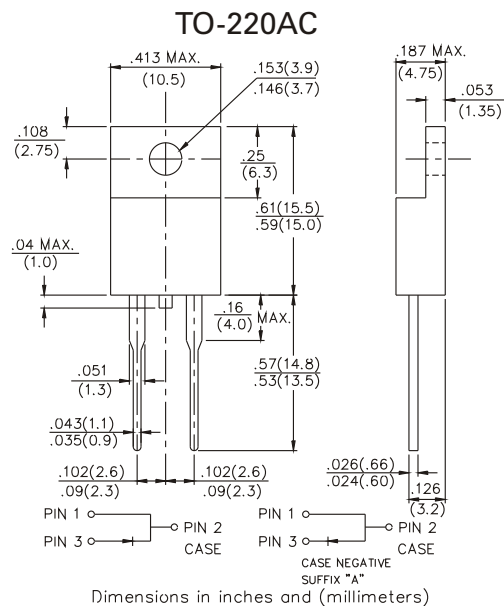
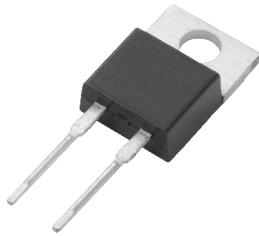


SB620 thru SB660

SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 60 VOLTS CURRENT - 6.0 AMPERES



FEATURES

- Plastic package has Underwriters laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MILS-19500 / 228
- Low power loss, high efficiency
- Low forward voltage, high current capability
- High surge capability
- For use in low voltage, high frequency inverters Free wheeling. And polarity protection applications
- High temperature soldering : 260°C/10seconds at terminals
- Pb free product are available : 99% Sn above can meet RoHS
- environment substance directive request

MECHANICAL DATA

Case : TO220AC full molded plastic package
 Terminals : Lead solderable per MIL-STD-202, Method 208 Polarity As marked.
 Mounting Position : Any
 Weight : 0.08 ounce, 2.24gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
 Single phase, half wave, 60Hz, resistive or inductive load
 For capacitive load, derate current by 20%

| | SB620 | SB630 | SB640 | SB650 | SB660 | UNITS |
|----------------------------------------------------------------------------------------------------|-------------|-------|-------|-------|-------|--------|
| Maximum Repetitive Peak Reverse Voltage | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum RMS Voltage | 14 | 21 | 28 | 35 | 42 | Volts |
| Maximum DC Blocking Voltage | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum Average Forward Rectified Current at T _c =75°C | 6.0 | | | | | Amps |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | 75 | | | | | Amps |
| Maximum Forward Voltage at 6.0A per element | 0.55 | | 0.7 | | | Volts |
| Maximum DC Reverse Current T _A =25°C at Rated DC Blocking Voltage T _A =100°C | 0.1 15 | | | | | mA |
| Typical Thermal Resistance Note R _{θJC} R _{θJA} | 6.0 80 | | | | | °C / W |
| Operating and Storage Temperature Range | -55 to +150 | | | | | °C |
| Storage Temperature Range | -55 to +150 | | | | | °C |

NOTES :

1. Thermal Resistance Junction to Ambient

SB620 thru SB660

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB620 THRU SB660

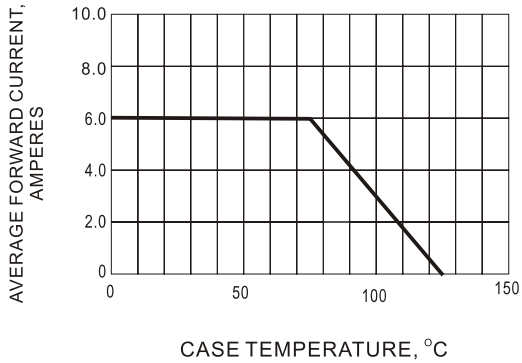


Fig.1- FORWARD CURRENT DERATING CURVE

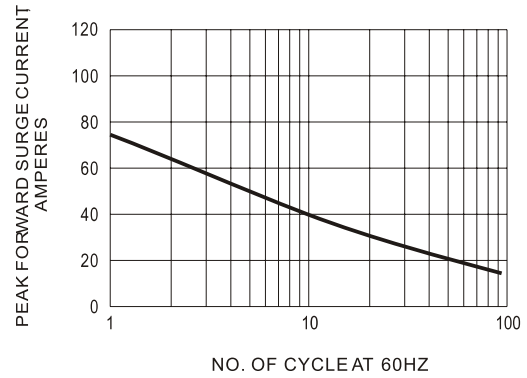


Fig.2- TMAXIMUM NON - REPETITIVE SURGE CURRENT

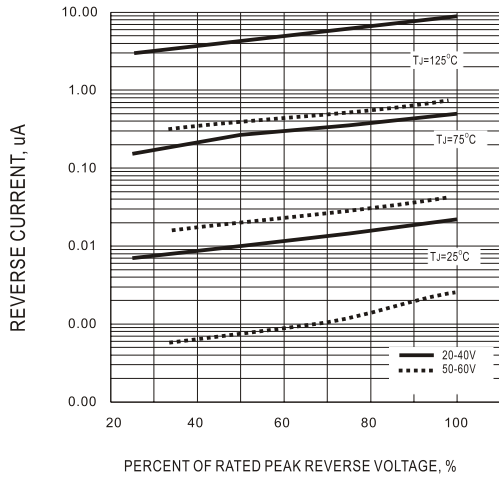


Fig.3- TYPICAL REVERSE CHARACTERISTIC

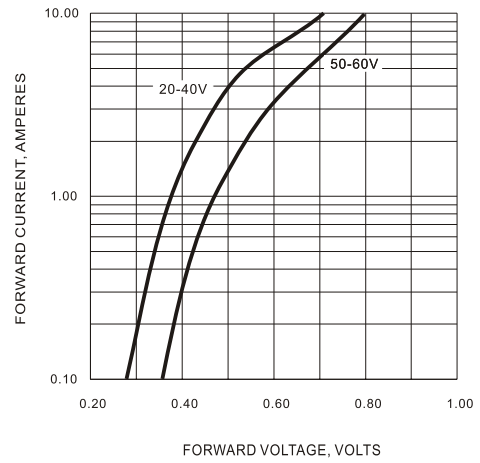


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC