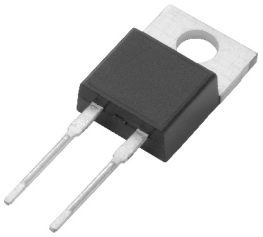
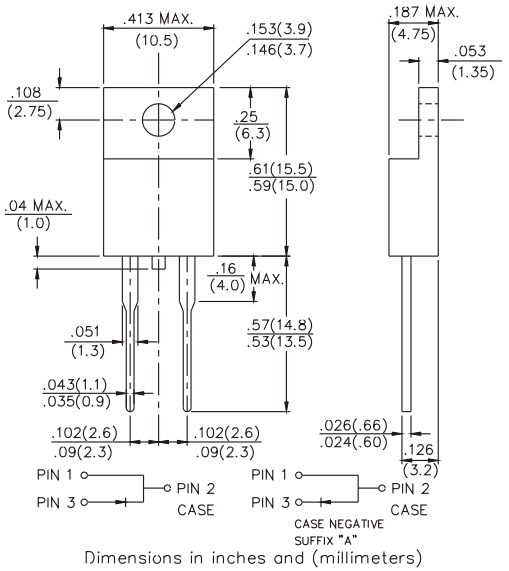
SB620 thru SB660

SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 60 VOLTS CURRENT - 6.0 AMPERES



TO-220AC



Dimensions in inches and (millimeters)

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 polarlity 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 RATIXGS 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 $R_{\theta JC}$ $R_{\theta JA}$	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

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB620 THRU SB660

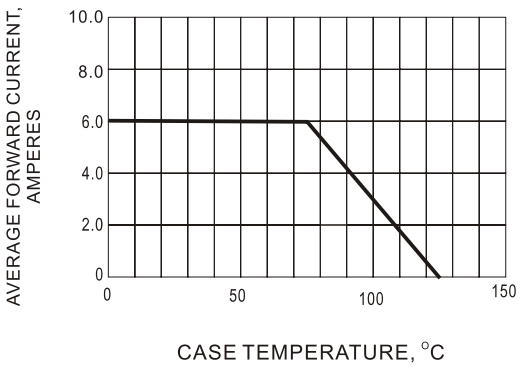


Fig.1- FORWARD CURRENT DERATING CURVE

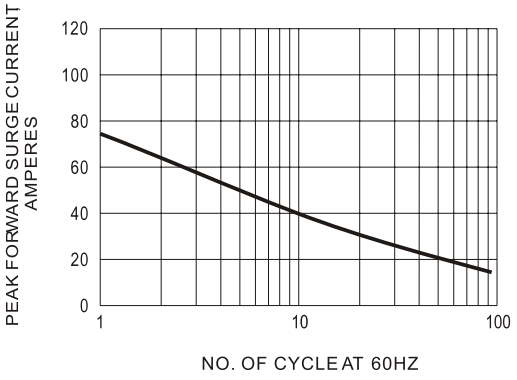


Fig.2- TMAXIMUM NON - REPETITIVE SURGE CURRENT

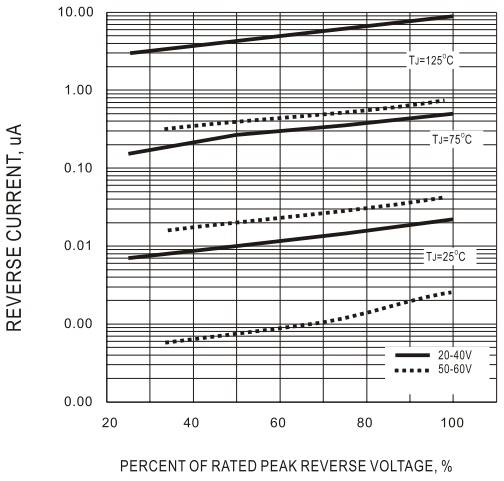


Fig.3- TYPICAL REVERSE CHARACTERISTIC

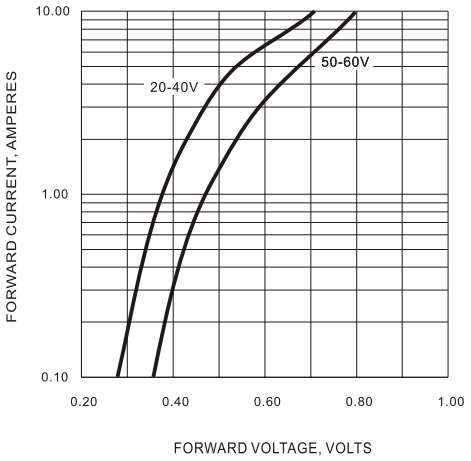


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC