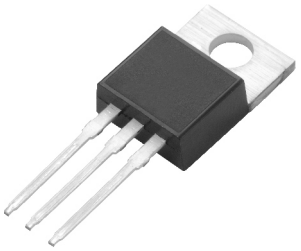
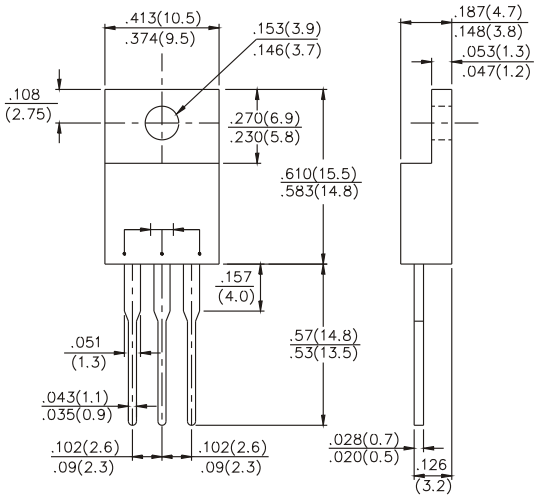
SB2520CT thru SB25150CT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 150 VOLTS CURRENT - 25 AMPERES



TO-220AB



Dimensions in inches and (millimeters)

FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94-0 utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, gigh efficiency
- Low Forward Voltage, high Current Capability
- High surge Capability
- For use 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：TO220AB Molded plastic
Terminals：Lead solderable per MIL-STD-202, Method 208
Polarity：As Marked on Body
Mounting Position：Any
Weight：0.08ounces, 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%

PARAMETER	SB 2520CT	SB 2530CT	SB 2540CT	SB 2550CT	SB 2560CT	SB 2580CT	SB 25100CT	SB 25150CT	UNITS
Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	80	100	150	Volts
Maximum RMS Voltage	14	21	28	35	42	56	70	105	Volts
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	150	Volts
Maximum Average Forward Rectified Current at T_C=90°C	25								Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	200							150	Amps
Maximum Forward Voltage at 12.5A per element	0.55			0.75		0.85		0.92	Volts
Maximum DC Reverse Current at Rated T_C=25°C DC Blocking Voltage T_C=100°C	0.5 100							0.1 7	mA
Typical Junction Resistance Note $R_{\theta JA}$	100								°C / W
Operating and Storage Temperature Range T_J	-55 to +150								°C

NOTE:
1. Thermal Resistance Junction to Ambient

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB2520CT THRU SB25150CT

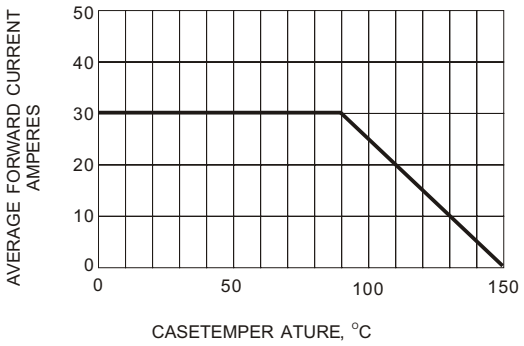


Fig.1-FORWARD CURRENT DERATING CURVE

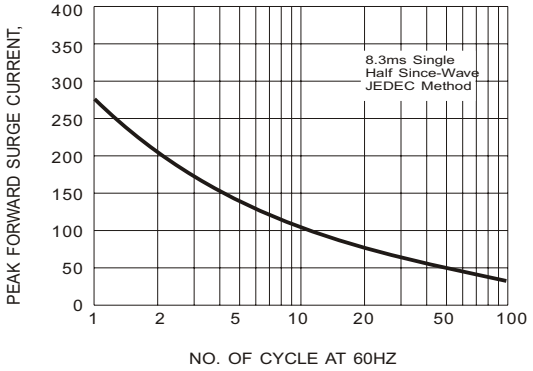


Fig.2- TMAXIMUM NON - REPETITIVE SURGE CURRENT

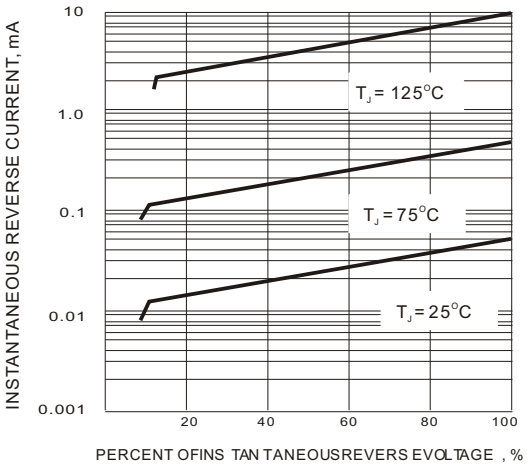


Fig.3- TYPICAL REVERSE CHARACTERISTIC

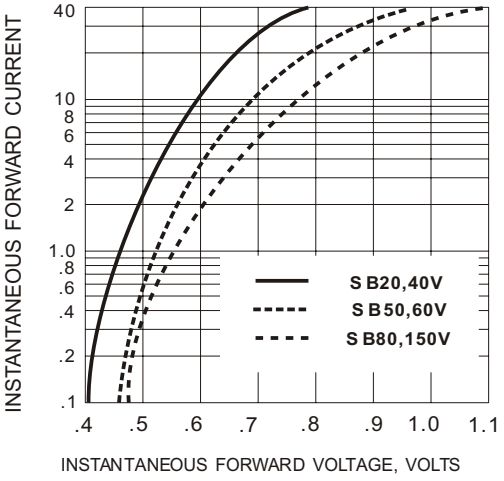


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

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