SB120 THRU SB1100

1 AMPERE SCHOTTKY BARRIER RECTIFIERS VOLTAGE - 20 to 100 Volts CURRENT - 1.0 Ampere

FEATURES

Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O utilizing
 Flame Retardant Epoxy Molding Compound

- 1 ampere operation at T_A=75 ¢J with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications

MECHANICAL DATA

Case: Molded plastic, DO-41

Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.012 ounce, 0.34 gram

(25.4) 1.0 MIIN (5.2) .205 (4.1) .160 (25.4) 1.0

DO-41

Dimensions in inches and (millimeters)

MIN

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

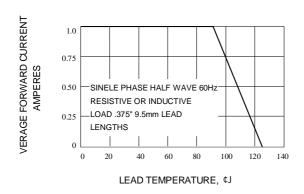
	SB120	SB130	SB140	SB150	SB160	SB180	SB1100	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	26	35	42	56	80	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Forward Voltage at 1.0A	0.50 0.70 0.85					85	V	
Maximum Average Forward Rectified Current .375" Lead Length at T _A =75 ¢J	1.0							Α
Peak Forward Surge Current I _{FM} (surge) 8.3msec. single half sine-wave superimposed on rated load (JEDEC method)	30							A
Maximum Full Load Reverse Current, Full Cycle Average at T _A =75 ¢J	30							mA
Maximum Reverse Current T _A =25 ¢J	0.5							mA
at Rated Reverse Voltage T _A =100 ¢J	10.0							
Typical Junction capacitance (Note 1)	110							₽F
Typical Thermal Resistance £KJA (Note 2)	80							¢J/W
Operating and Storage Temperature Range	-50 TO +125							¢J

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Thermal Resistance Junction to Ambient



RATING AND CHARACTERISTIC CURVES SB120 THRU SB1100



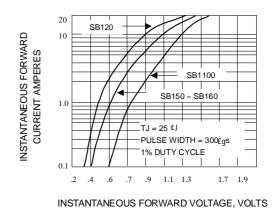
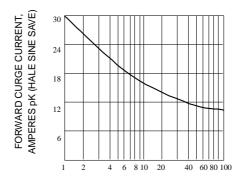


Fig. 1-FORWARD CURRENT DERATING CURVEE

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



NUMBER OF CYCLES AT 60Hz

Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

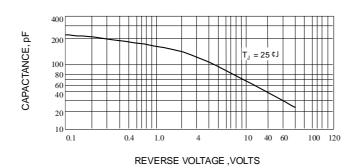


Fig. 4-TYPICAL JUNCTION CAPACITANCE

