

SB120 THRU SB1100

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

DO-41

FEATURES

Plastic package has Underwriters Laboratory Flammabi ty Classification 94V-O uti zing 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,

MECHANICAL DATA

Case: Molded plastic, DO-41

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

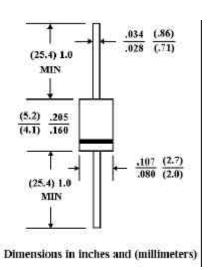
and polar ty protection applications

Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.012 ounce, 0.34 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

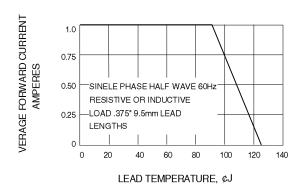
Single phase, half wave, 60 Hz, resistive or inductive load.

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SB120	SB130	SB140	SB150	SB160	SB180	SB1100	UNITS
20	30	40	50	60	80	100	V
14	21	26	35	42	56	80	V
20	30	40	50	60	80	100	V
0.50 0.70 0.85					85	V	
1.0						Α	
30						Α	
30						mA	
0.5						mA	
10.0							
110						₽F	
80						¢J/W	
-50 TO +125						¢J	
	SB120 20 14 20	SB120 SB130 20 30 14 21 20 30 0.50	SB120 SB130 SB140 20 30 40 14 21 26 20 30 40 0.50	SB120 SB130 SB140 SB150 20 30 40 50 14 21 26 35 20 30 40 50 0.50 0.5 1.0 30 30 30 10.5 10.0 110 80	SB120 SB130 SB140 SB150 SB160 20 30 40 50 60 14 21 26 35 42 20 30 40 50 60 0.50 0.70 1.0 30 0.5 10.0 110 80	SB120 SB130 SB140 SB150 SB160 SB180 20 30 40 50 60 80 14 21 26 35 42 56 20 30 40 50 60 80 0.50 0.70 0.70 0.70 0.70 30	SB120 SB130 SB140 SB150 SB160 SB180 SB1100 20 30 40 50 60 80 100 14 21 26 35 42 56 80 20 30 40 50 60 80 100 0.50 0.70 0.85 1.0 30

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



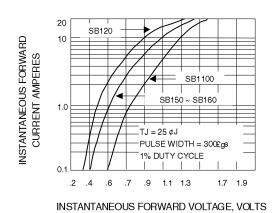


Fig. 1-FORWARD CURRENT DERATING CURVEE

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

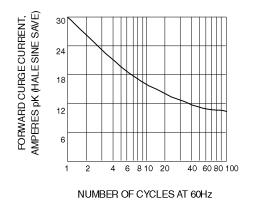


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

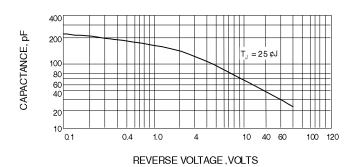


Fig. 4-TYPICAL JUNCTION CAPACITANCE