

SB120S THRU SB1100S

1 AMPERE SCHOTTKY BARRIER RECTIFIERS

A-405

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, and polar ty protection applications

MECHANICAL DATA

Case: Molded plastic, A-405

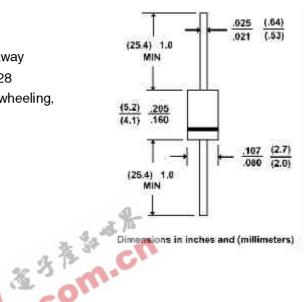
Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.008 ounce, 0.22 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

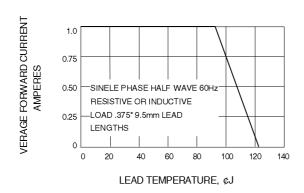
Single phase, half wave, 60 Hz, resistive or inductive load.

SB120S	004000						
001200	2B1302	SB140S	SB150S	SB168S	SB180S	SB1100S	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						A	
30						mΑ	
0.5						mA	
10.0							
110						₽F	
80						¢J/W	
-50 TO +125						¢J	
	20 14	20 30 14 21 20 30	20 30 40 14 21 26 20 30 40 0.50	20 30 40 50 14 21 26 35 20 30 40 50 0.50 0.50 1.0 30 0.5 10.0 110 80	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	20 30 40 50 60 80 14 21 26 35 42 56 20 30 40 50 60 80 0.50 0.70 0. 30 30 0.5 10.0 110 80	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
- * JECED Registered Value

RATING AND CHARACTERISTIC CURVES SB120S THRU SB1100S



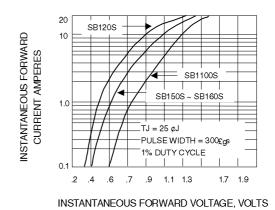


Fig. 1-FORWARD CURRENT DERATING CURVEE

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

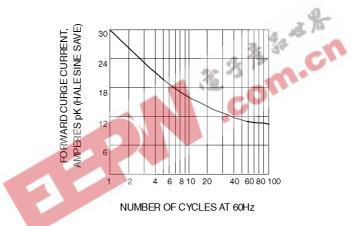


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

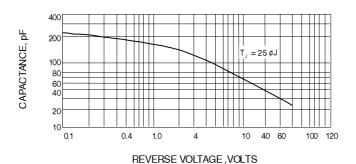


Fig. 4-TYPICAL JUNCTION CAPACITANCE