SB220 THRU SB2100

2 AMPERE SCHOTTKY BARRIER RECTIFIERS VOLTAGE - 20 to 100 Volts CURRENT - 2.0 Amperes

<u>FEATURES</u>

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

- 2 ampere operation at T_L=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-15

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

Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.015 ounce, 0.4 gram

1.0 MIN (25.4) (7.6) .300 (5.8) .230 .104 (3.6) .104 (25.4)

DO-15

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

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

	SB220	SB230	SB240	SB250	SB260	SB280	SB2100	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 2.0A	0.50 0.70 0.85					85	V	
Maximum Average Forward Rectified Current .375" Lead Length at T _A =75 ¢J	2.0							Α
Peak Forward Surge Current I _{FM} (surge) 8.3msec. single half sine-wave superimposed on rated load (JEDEC method)	50							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	20.0							
Typical Junction capacitance (Note 1)	170							₽F
Typical Thermal Resistance £KJA (Note 2)	35							¢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 SB220 THRU SB2100

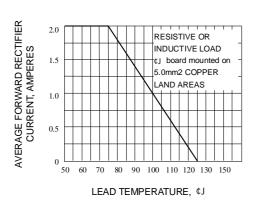
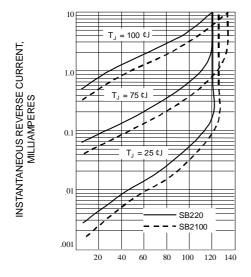
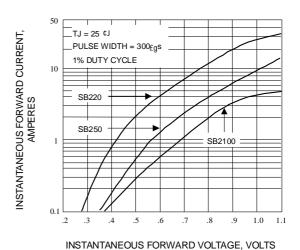


Fig. 1-FORWARD CURRENT DERATING CURVE



PERCENT OF RATED PEAK REVERSE VOLTAGE, %

Fig. 3-TYPICAL REVERSE CHARACTERISTICS



INO ITANTIALE COOT ON WIND VOLITICE, VOLIC

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

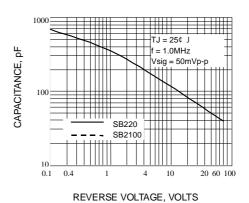


Fig. 4-TYPICAL JUNCTION CAPACITANCE

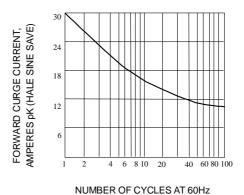


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

