

SB220 THRU SB2100

2.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

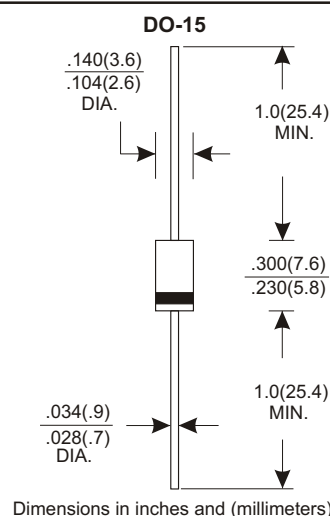
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.34 grams

VOLTAGE RANGE

20 to 100 Volts

CURRENT

2.0 Ampere



Dimensions in inches and (millimeters)

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	SB220	SB230	SB240	SB250	SB260	SB280	SB2100	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	I _{F(AV)}	2							A
Peak Forward Surge Current, 8.3 ms Single half-Sine-Wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							A
Maximum Forward Voltage at 2 A	V _F	0.55			0.7		0.85		V
Maximum Reverse Current at Rated DC Blocking Voltage at T _A = 25 °C 									

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.

²⁾ Thermal Resistance from Junction to Ambient 0.375" (9.5 mm) lead length P.C.B. mounted.

SB220 THRU SB2100

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

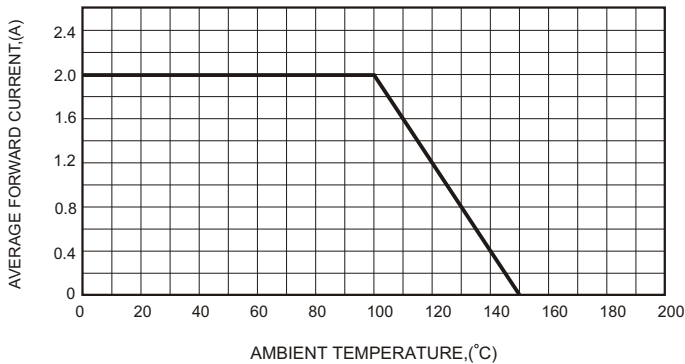


FIG.2-TYPICAL FORWARD CHARACTERISTICS

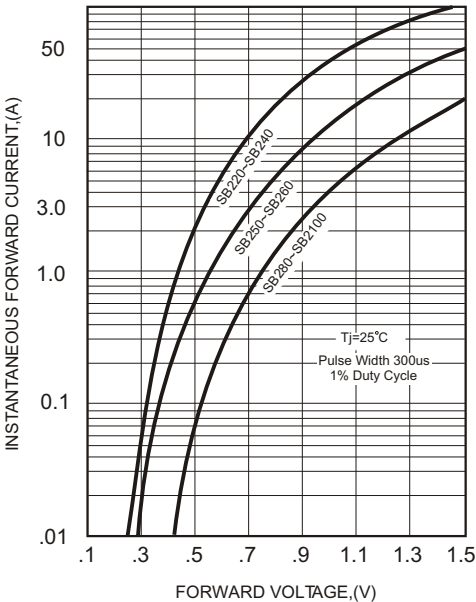


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

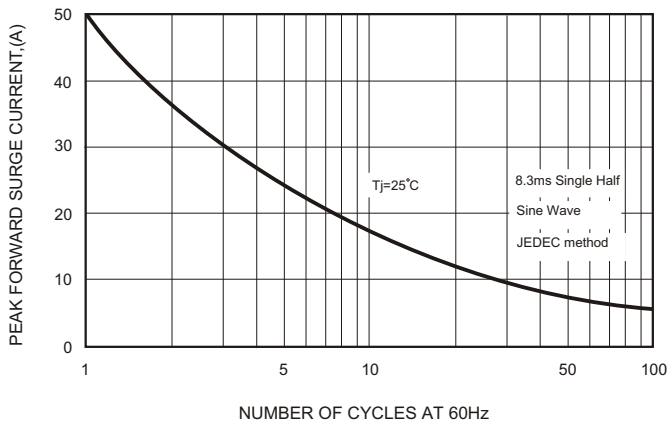


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

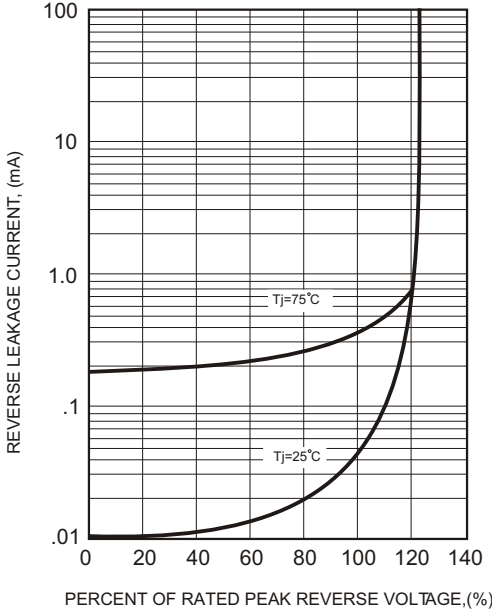


FIG.4-TYPICAL JUNCTION CAPACITANCE

