



DATA SHEET

SB220~SB2100

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 100 Volts **CURRENT** 2.0 Amperes

DO-15

Unit: inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

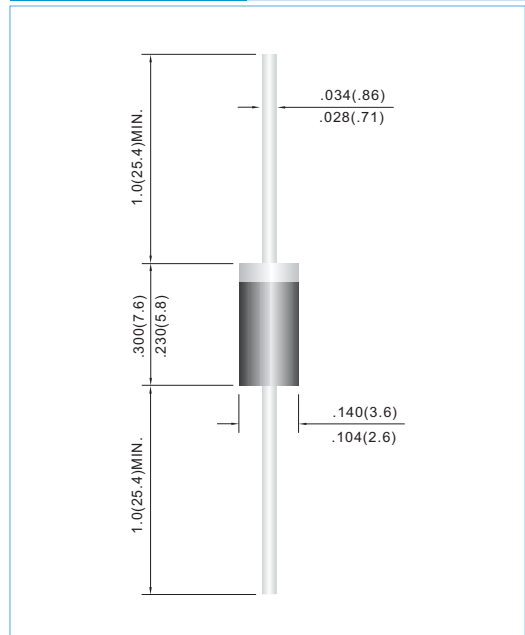
Case: DO-15 Molded plastic

Terminals: Axial leads, solderable per MIL-STD-202G, Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.015 ounces, 0.4grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	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 .375" (9.5mm) lead length at $T_A = 75^\circ C$	I_{AV}	2.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							A
Maximum Forward Voltage at 2.0A	V_F	0.50		0.70		0.85			V
Maximum DC Reverse Current at $T_A = 25^\circ C$ Rated DC Blocking Voltage $T_A = 100^\circ C$	I_R	0.5				20			mA
Maximum Thermal Resistance	$R_{\theta JA}$	35							$^\circ C / W$
Operating Junction Temperature Rang	T_J	-50 TO +125							$^\circ C$
Storage Temperature Rang	T_{STG}	-50 TO +150							$^\circ C$



RATING AND CHARACTERISTIC CURVES

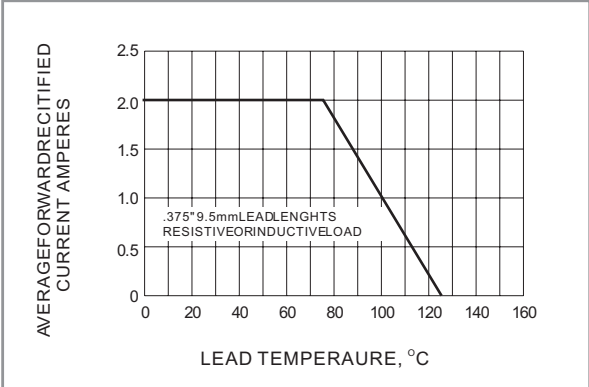


Fig.1- FORWARD CURRENT DERATING CURVE

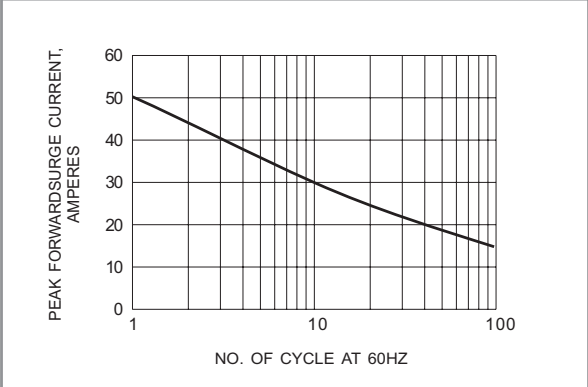


Fig.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

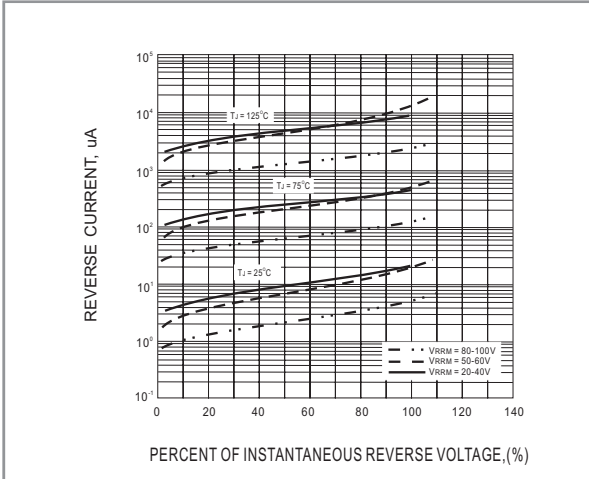


Fig.3- TYPICAL REVERSE CHARACTERISTIC

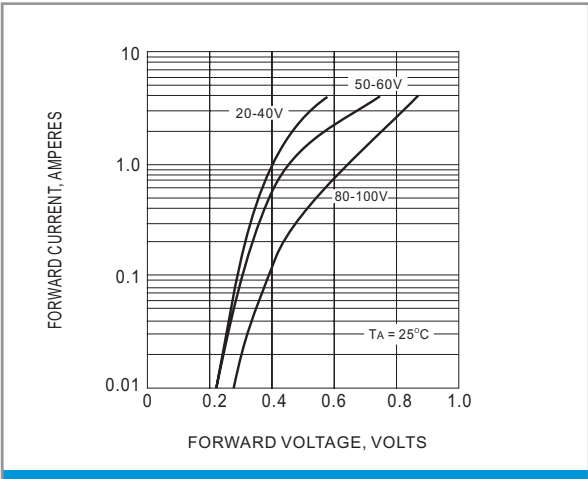


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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