



DATA SHEET

SB220E~SB260E

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volts **CURRENT** 2.0 Amperes

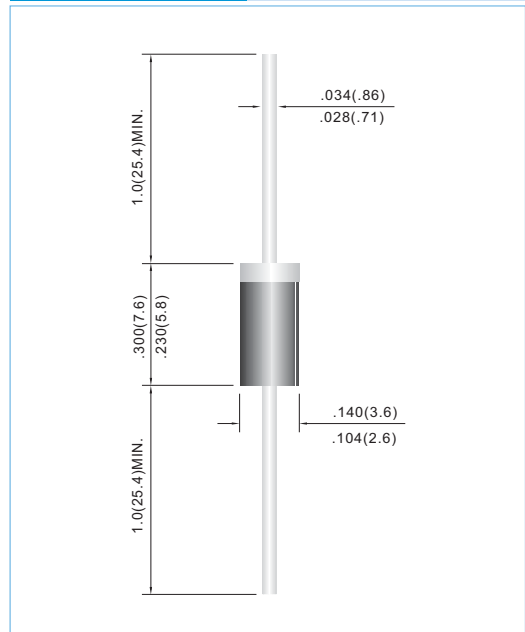
DO-15 Unit: inch(mm)

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
- ESD Passed devices : Air mode 15KV ,human body mode 8KV

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, 60Hz, resistive or inductive load.

PARAMETER	SYMBOL	SB220E	SB230E	SB240E	SB250E	SB260E	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	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		V
Maximum DC Reverse Current $T_A=25^\circ C$ at 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 and Storage Temperature Range	T_J, T_{STG}	-50 TO +125					$^\circ C$



RATING AND CHARACTERISTIC CURVES

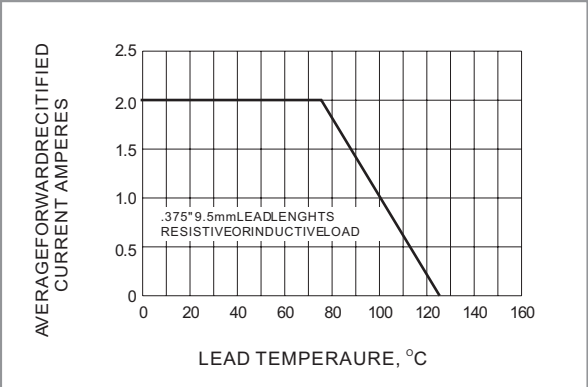


Fig.1- FORWARD CURRENT DERATING CURVE

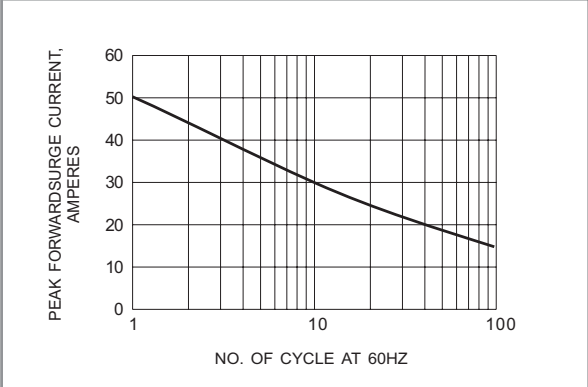


Fig.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

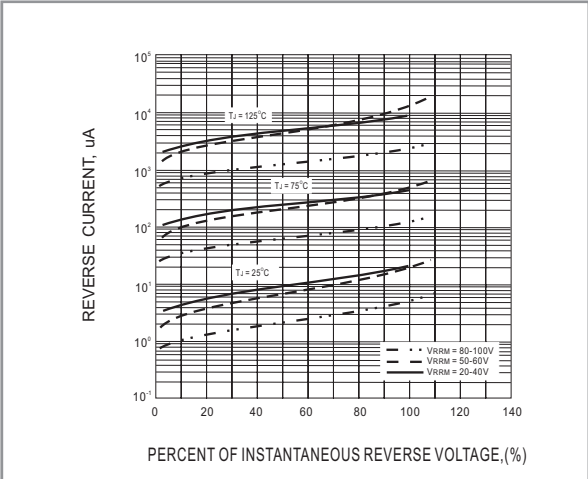


Fig.3- TYPICAL REVERSE CHARACTERISTIC

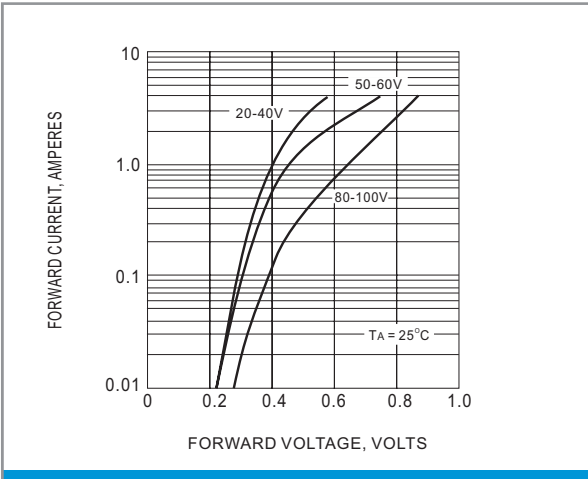


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC