SB270-E THRU SB2100-E

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 70 TO 100V **CURRENT: 2.0A**

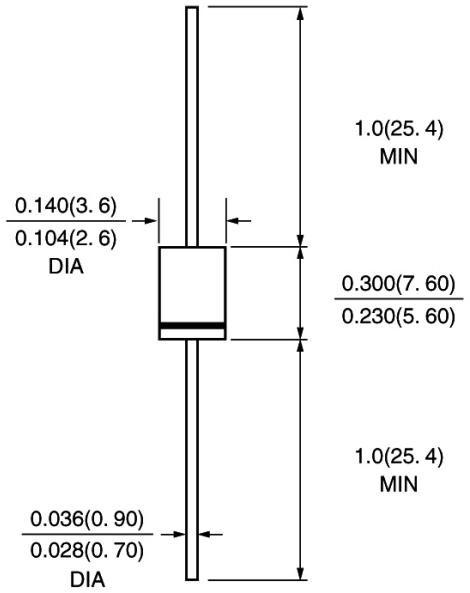
FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability
High temperature soldering guaranteed
250°C /10sec/0.375" lead length at 5 lbs tension
Halogen Free

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Halogen Free Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO-15\ DO-204AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SB270-E	SB280-E	SB290-E	SB2100-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	70	80	90	100	V
Maximum RMS Voltage	Vrms	49	56	63	70	V
Maximum DC blocking Voltage	Vdc	70	80	90	100	V
Maximum Average Forward Rectified Current 0.375" lead length Ta=25°C	If(av)	2.0				A
Peak Forward Surge Current 8.3ms singlehalf sine-wave superimposed on rated load	Ifsm	70.0				A
Maximum Forward Voltage at 2.0A DC (Note 1)	Vf	0.79				V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	0.5 20.0				mA
Typical Thermal Resistance (Note 2)	Rth(ja)	60.0				°C/W
Storage and Operating Junction Temperature	Tj, Tstg	-55 to +150				°C

Note:
1. Pulse test :300uS pulse width ,1% duty cycle.
2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted

Fig. 1 – Forward Current Derating Curve

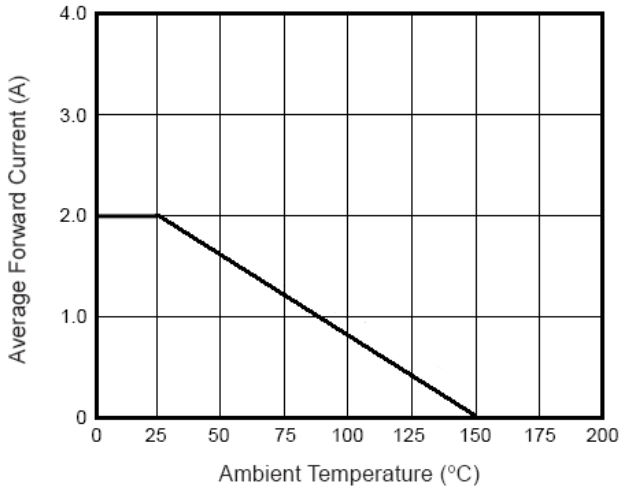


Fig. 2 – Typical Instantaneous Forward Characteristics

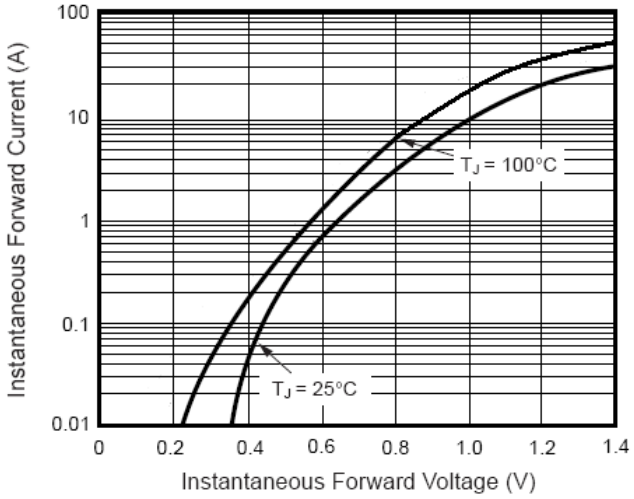


Fig. 3 – Typical Reverse Characteristics

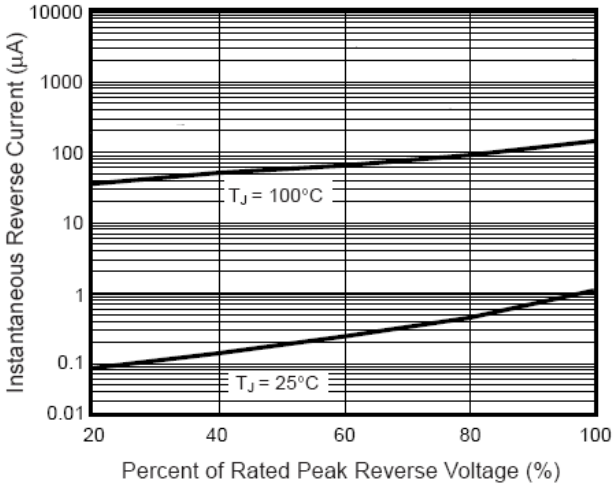


Fig. 4 – Typical Junction Capacitance

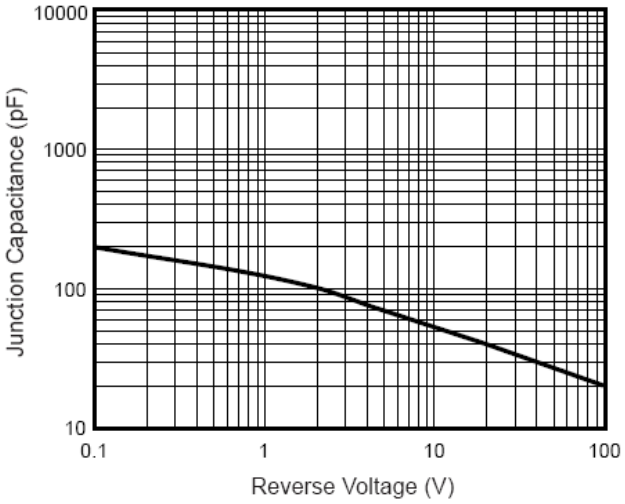


Fig. 5 - Typical Transient Thermal Impedance