SB3200-E

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 200V **CURRENT: 3.0A**

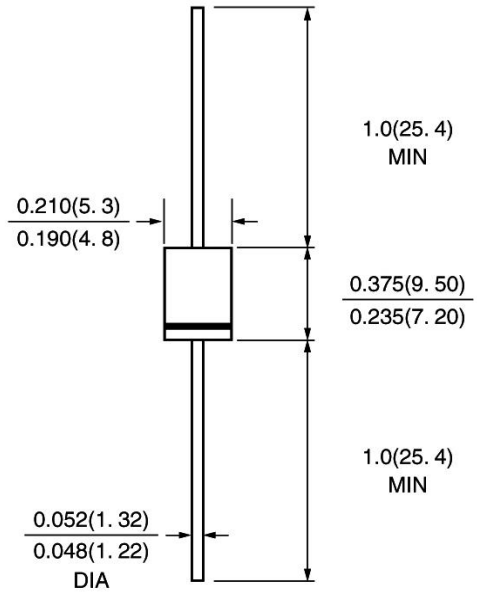
FEATURE

High current capability
Low forward voltage drop
Low power loss, high efficiency
High surge current capability
High temperature soldering guaranteed
260°C /10sec/0.375" lead length
Halogen Free

MECHANICAL DATA

Terminal: Plated axial leads solderable per J-STD-002
Case: Molded with UL-94 Class V-0 recognized Halogen Free Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO-201AD



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	SB3200-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified Current 3/8" lead length	If(av)	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	80	A
Maximum Forward Voltage at rated Forward Current	Vf	0.88	V
Maximum DC Reverse Current Tj =25℃ at rated DC blocking voltage Tj =125℃	Ir	0.05 2.0	mA
Typical Junction Capacitance (Note 2)	Cj	62	pF
Typical Thermal Resistance (Note 3)	Rth(jc)	15.0	℃/W
Operating Junction Storage Temperature Range	Tj ,Tstg	-55 to +150	℃

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Case

Fig. 1 – Forward Current Derating Curve

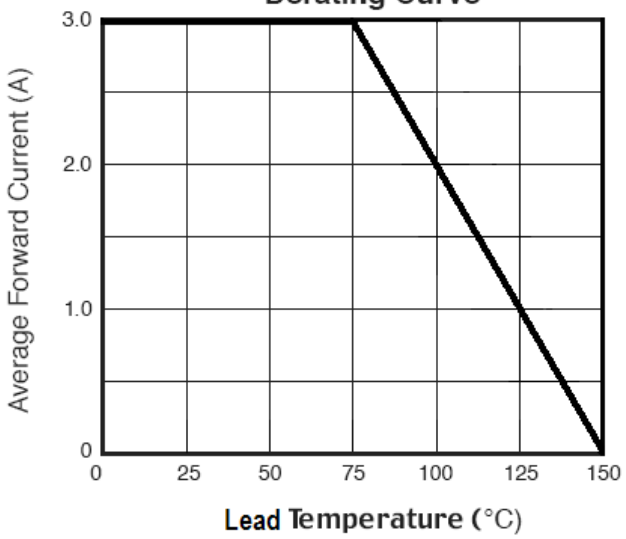


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

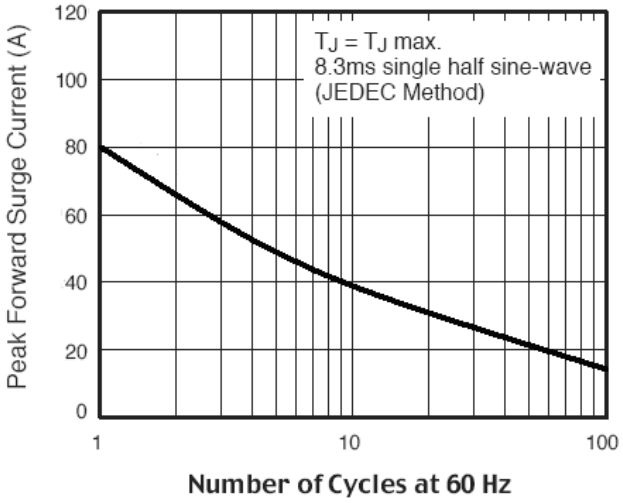


Fig. 3 – Typical Instantaneous Forward Characteristics

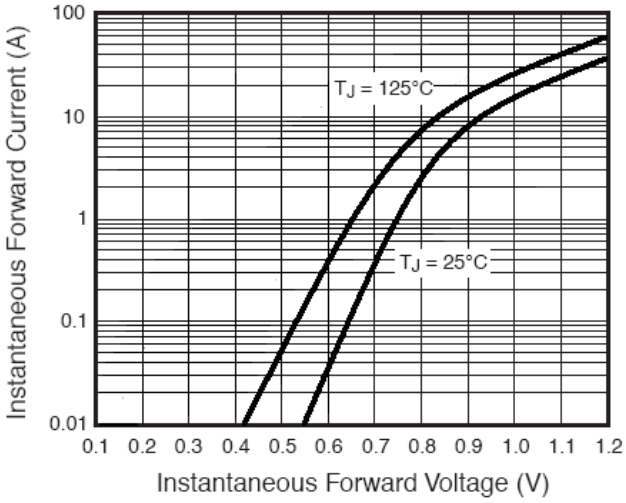


Fig. 4 – Typical Reverse Characteristics

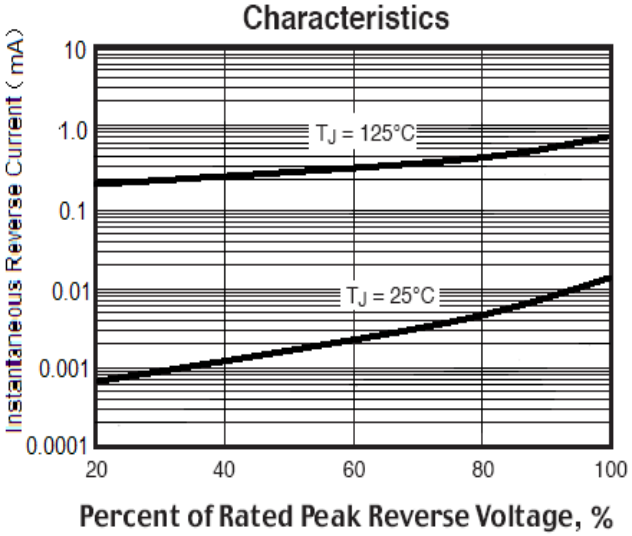


Fig. 5 - Typical Junction Capacitance