SB5200

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 200V **CURRENT: 5.0A**

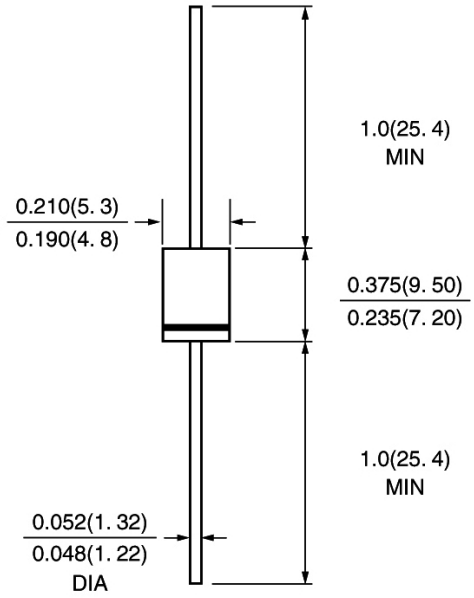
FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability
High temperature soldering guaranteed: 260°C/10sec

MECHANICAL DATA

Terminal: Plated axial leads solderable per J-STD-002
Case: Molded with UL-94 Class V-0 recognized Flame Retardant 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	SB5200	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)	5.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150.0	A
Maximum Forward Voltage at 5.0A (Note 1)	Vf	0.90	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	0.5 10	mA
Typical Thermal Resistance (Note 2)	Rth(jc)	10.0	°C /W
Storage and Operating Junction Temperature	Tstg,Tj	-50 to +150	°C

Note:
1. Pulse test: 300μs pulse width, 1% duty cycle
2. Thermal Resistance from Junction to Case

Fig. 1 – Forward Current Derating Curve

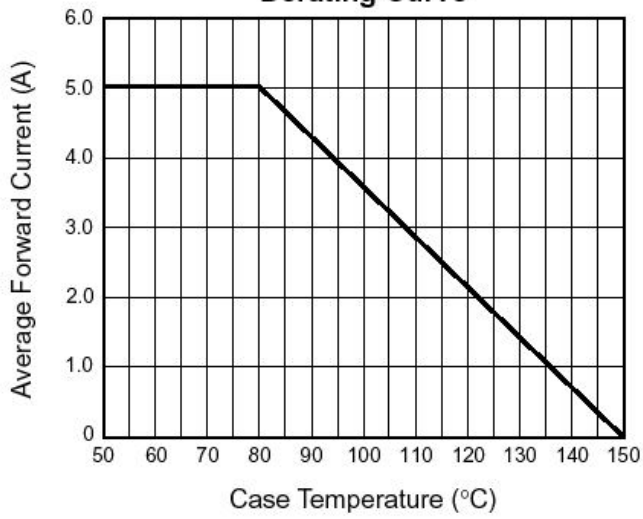


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

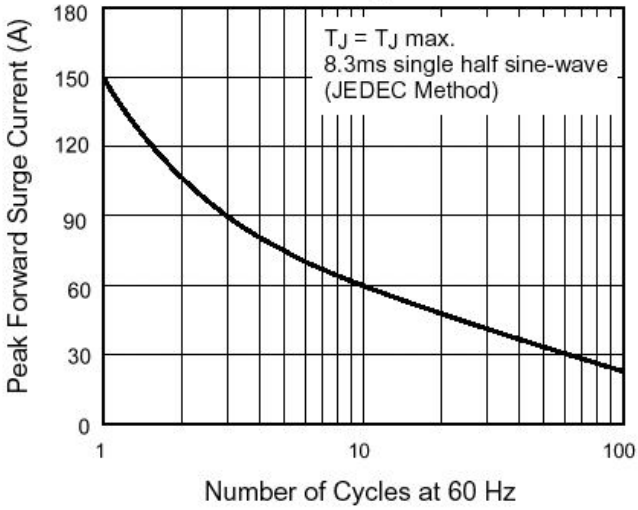


Fig. 3 – Typical Instantaneous Forward Characteristics

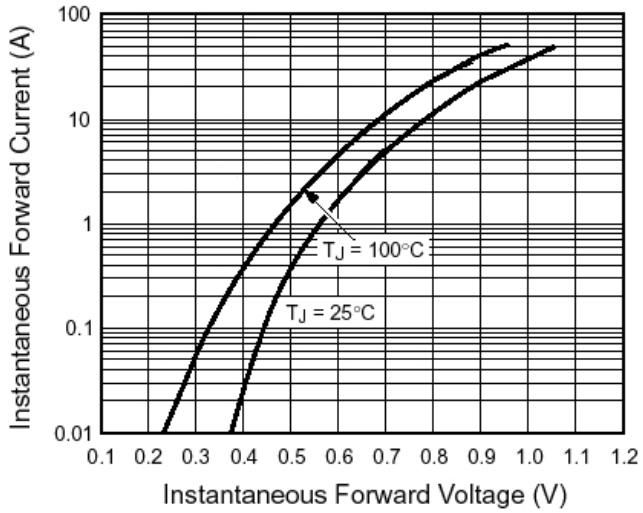


Fig. 4 – Typical Reverse Characteristics

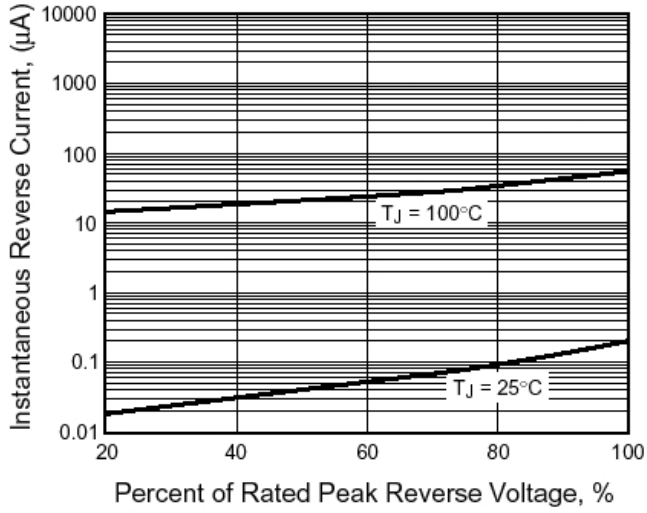


Fig. 5 - Typical Transient Thermal Impedance

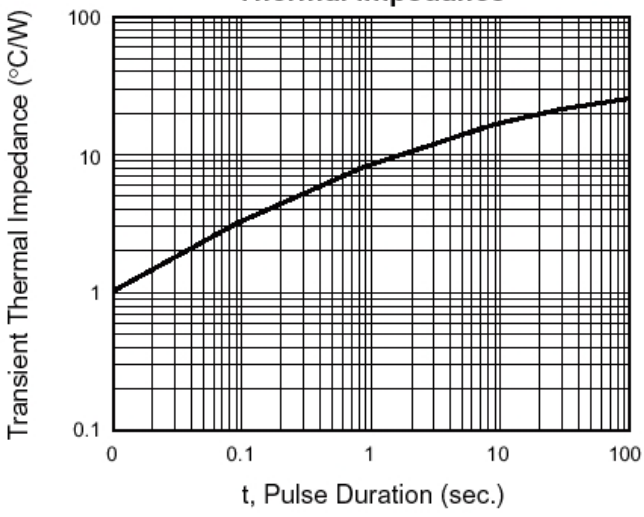


Fig. 6 – Typical Junction Capacitance