

SB320 THRU SB360

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 60V CURRENT: 3.0A

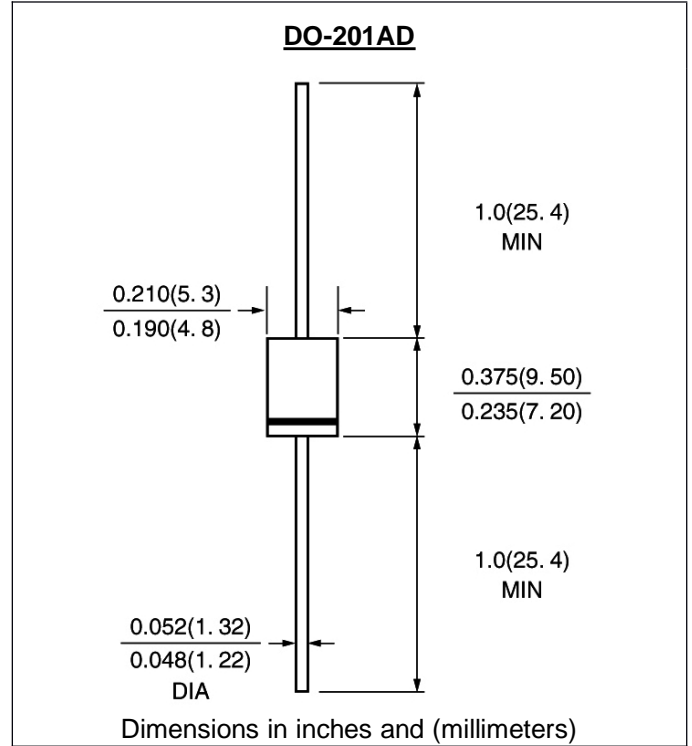


FEATURE

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

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SB 320	SB 330	SB 340	SB 350	SB 360	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 3/8" lead length	I _{f(av)}	3.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	100					A
Maximum Forward Voltage at 3.0A DC	V _f	0.50		0.74			V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	0.5					mA
		20.0		10.0			mA
Typical Junction Capacitance (Note 1)	C _j	220.0					pF
Typical Thermal Resistance (Note 2)	R(ja)	30.0					°C /W
Storage and Operating Junction Temperature	T _j	-65 to +125			-65 to +150		°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted ¹

Fig. 1 - Forward Current Derating Curve

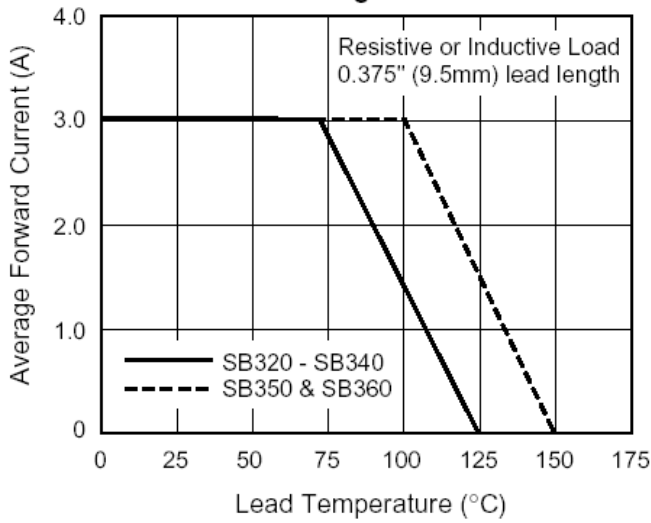


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

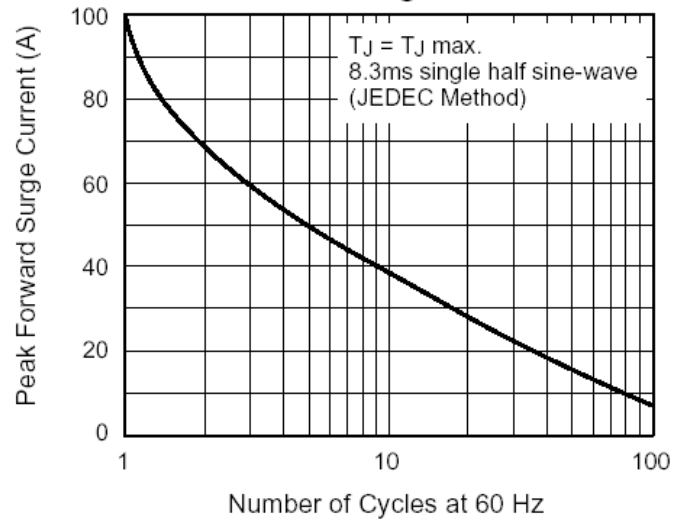


Fig. 3 - Typical Instantaneous Forward Characteristics

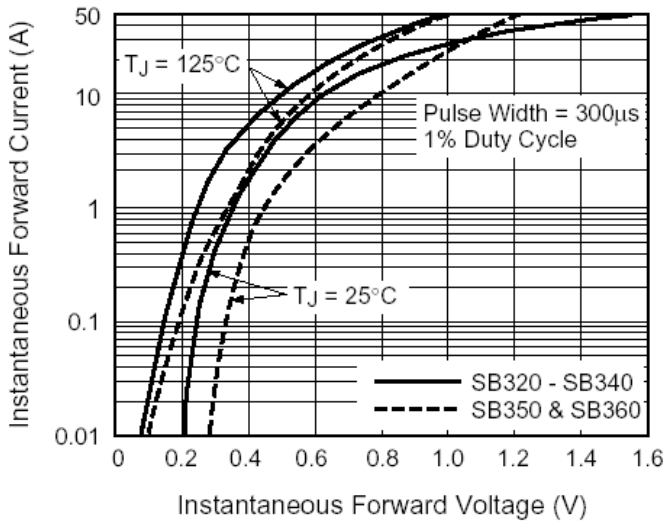


Fig. 4 - Typical Reverse Characteristics

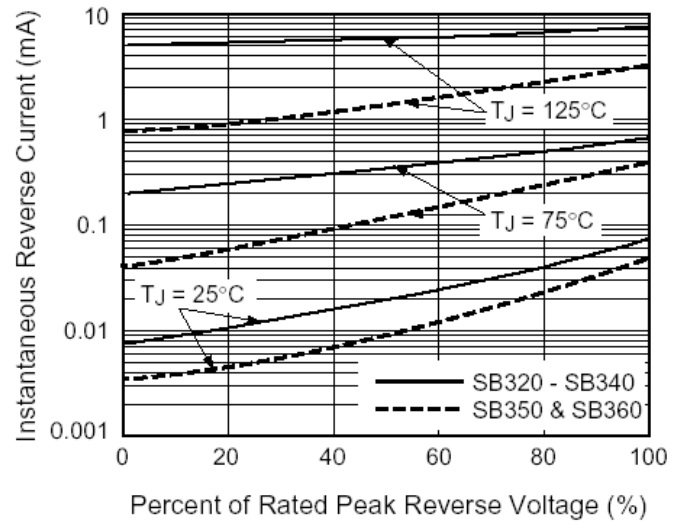


Fig. 5 - Typical Junction Capacitance

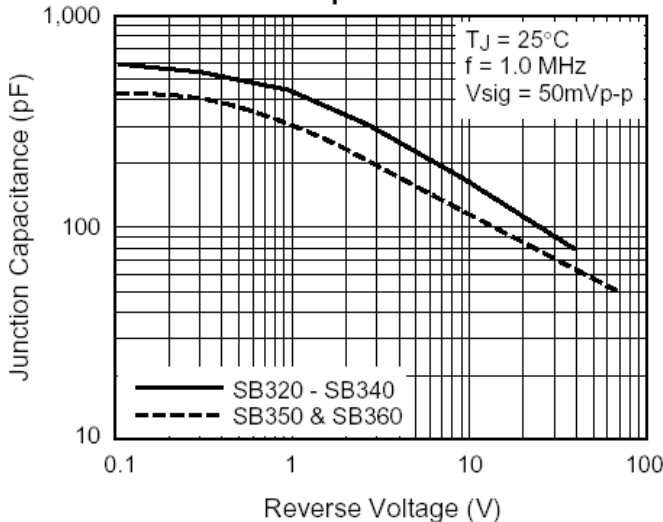


Fig. 6 - Typical Transient Thermal Impedance

