SB320 THRU SB360

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 60V CURRENT: 3.0A

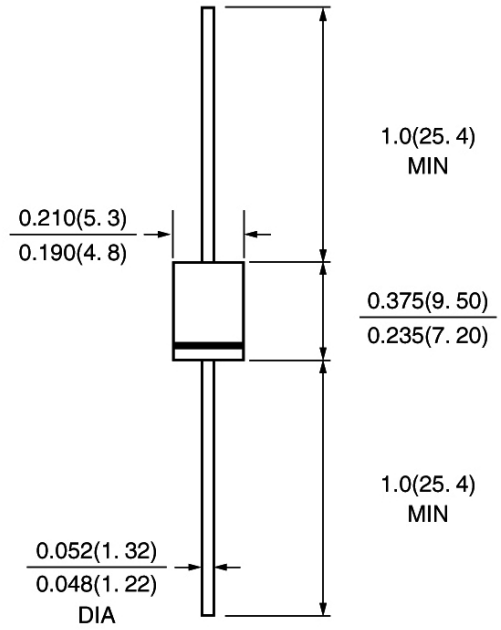
FEATURE

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

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	SB 320	SB 330	SB 340	SB 350	SB 360	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	V
Maximum RMS Voltage	Vrms	14	21	28	35	42	V
Maximum DC blocking Voltage	Vdc	20	30	40	50	60	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	100					A
Maximum Forward Voltage at 3.0A DC	Vf	0.50			0.74		V
Maximum DC Reverse Current Ta =25°C	Ir	0.5					mA
at rated DC blocking voltage Ta =100°C		20.0			10.0		mA
Typical Junction Capacitance (Note 1)	Cj	220.0					pF
Typical Thermal Resistance (Note 2)	Rth(ja)	30.0					°C /W
Storage and Operating Junction Temperature	Tj	-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

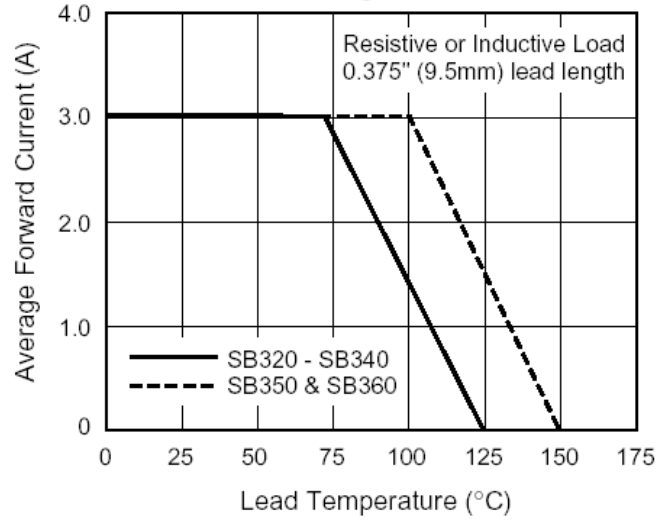


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

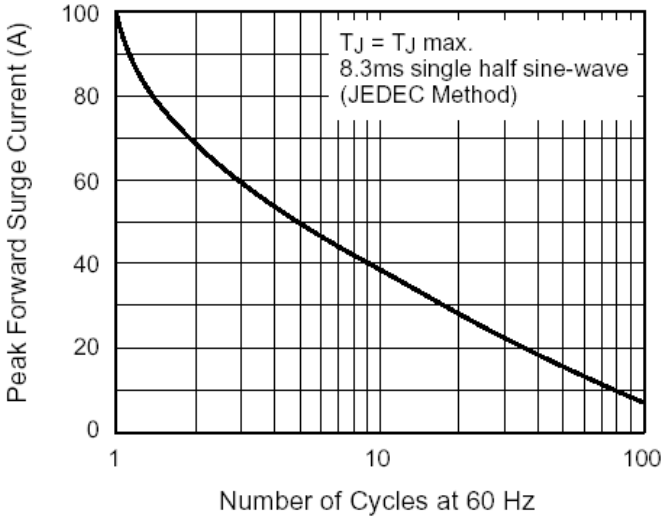


Fig. 3 - Typical Instantaneous Forward Characteristics

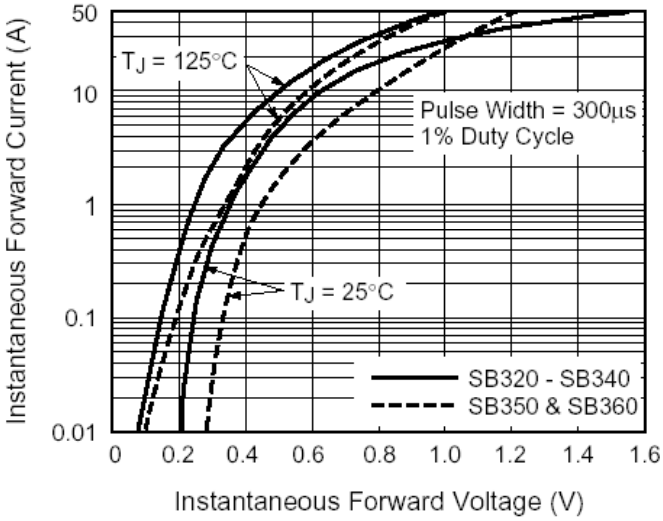


Fig. 4 - Typical Reverse Characteristics

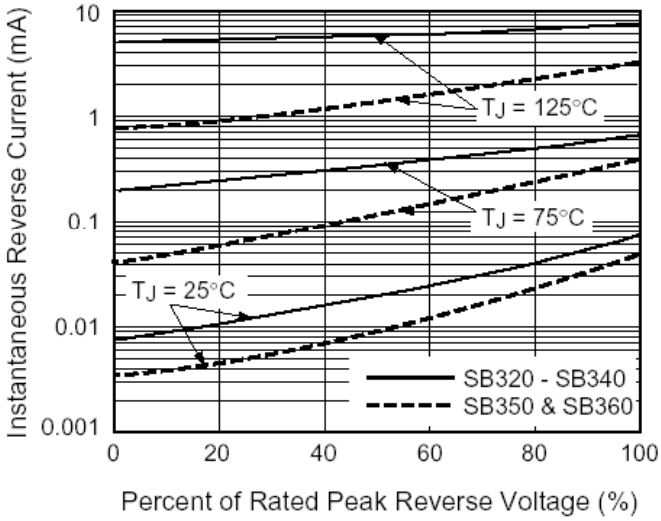


Fig. 5 - Typical Junction Capacitance

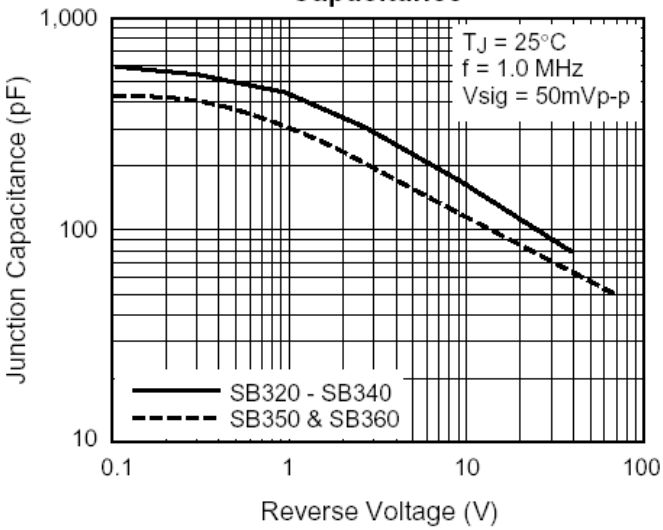


Fig. 6 - Typical Transient Thermal Impedance