

SB340-E THRU SB360-E

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 40 to 60V

CURRENT: 3.0A

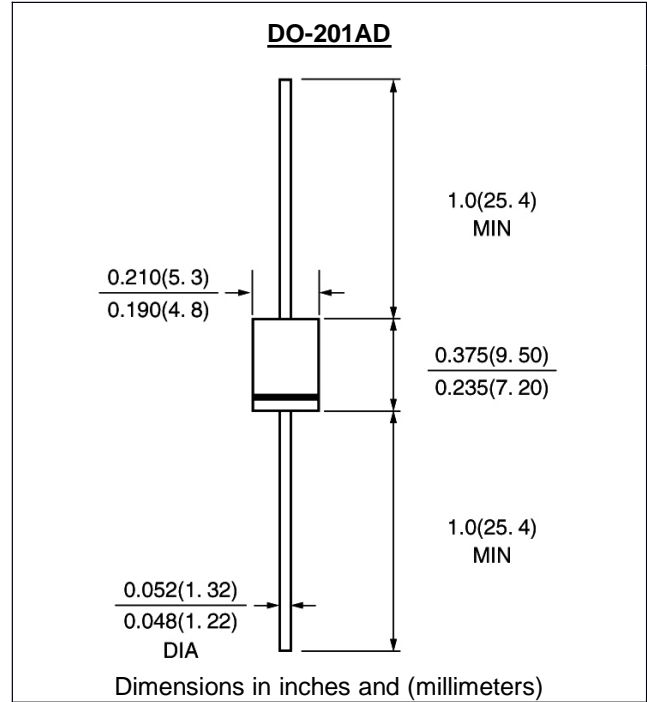


FEATURE

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 Halogen Free 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	SB340-E	SB360-E	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	40	60	V
Maximum RMS Voltage	V _{rms}	28	42	V
Maximum DC blocking Voltage	V _{dc}	40	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 at rated DC blocking voltage Ta =25°C Ta =100°C	I _r	0.5		mA
		20.0	10.0	
Typical Junction Capacitance (Note 1)	C _j	220.0		pF
Typical Thermal Resistance (Note 2)	R _{th(ja)}	30.0		°C /W
Storage and Operating Junction Temperature	T _{stg} , 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

Fig. 1 - Forward Current Derating Curve

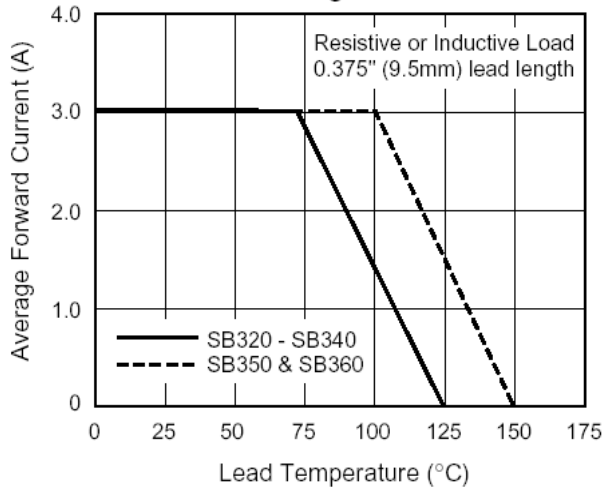


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

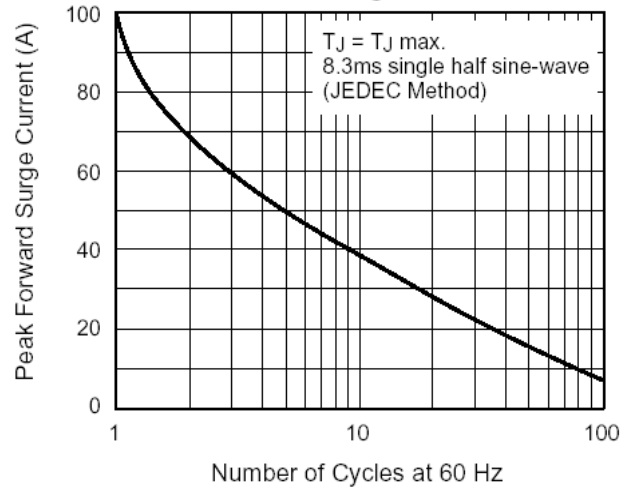


Fig. 3 - Typical Instantaneous Forward Characteristics

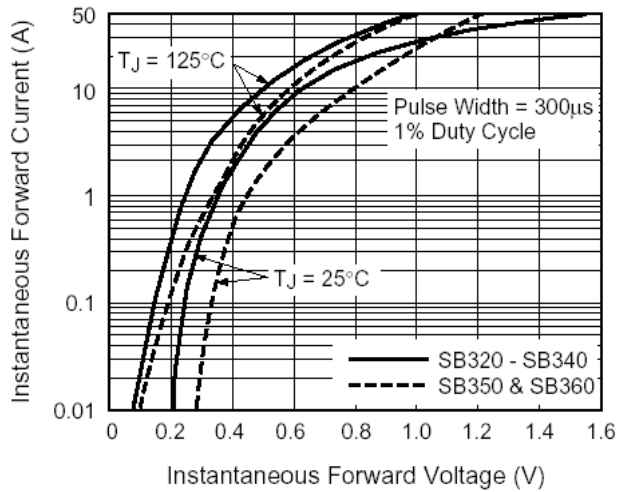


Fig. 4 - Typical Reverse Characteristics

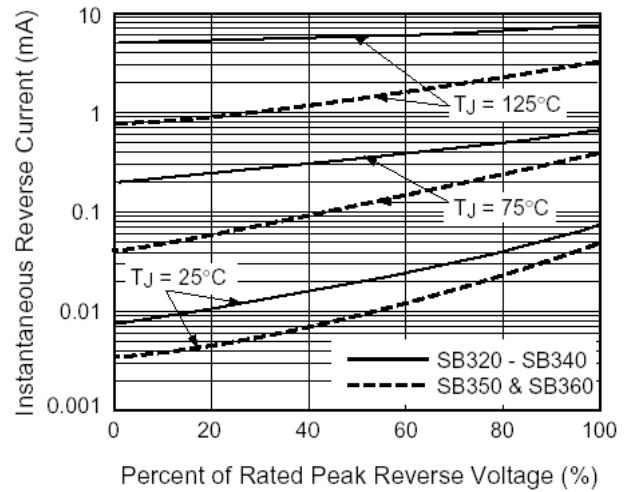


Fig. 5 - Typical Junction Capacitance

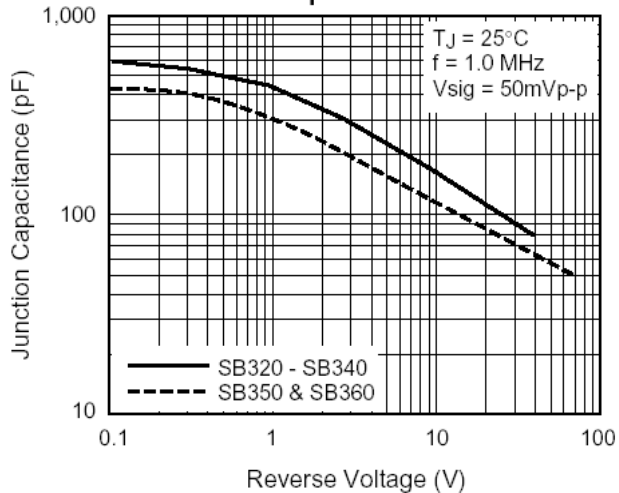


Fig. 6 - Typical Transient Thermal Impedance

