SB360L-41-E

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 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℃/10sec/0.375" lead length at 5 lbs tension
Halogen Free

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

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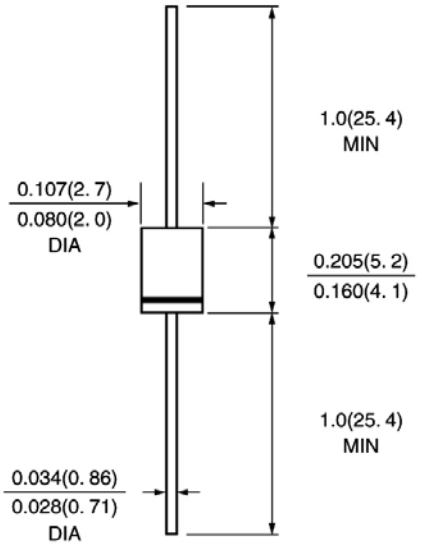

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60Hz, resistive or inductive load rating at 25℃, unless otherwise stated)

	Symbol	SB360L-41-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	60	V
Maximum RMS Voltage	Vrms	42	V
Maximum DC blocking Voltage	Vdc	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	0.60	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =100℃	Ir	0.5 10.0	mA
Typical Junction Capacitance (Note 1)	Cj	220	pF
Typical Thermal Resistance (Note 2)	Rth(ja)	30.0	℃/W
Storage and Operating Junction Temperature	Tj, Tstg	-65 to +150	℃

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

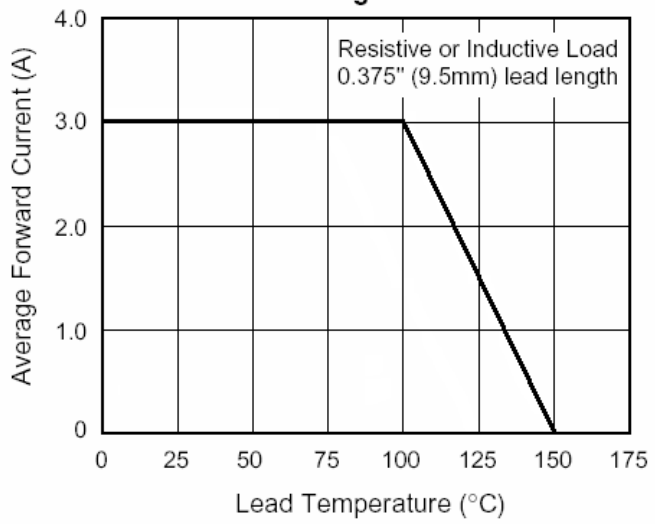

Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

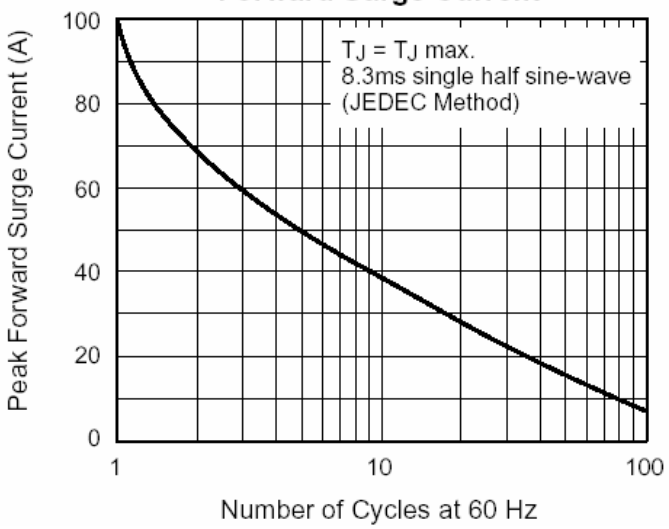

Fig. 3 - Typical Instantaneous Forward Characteristics

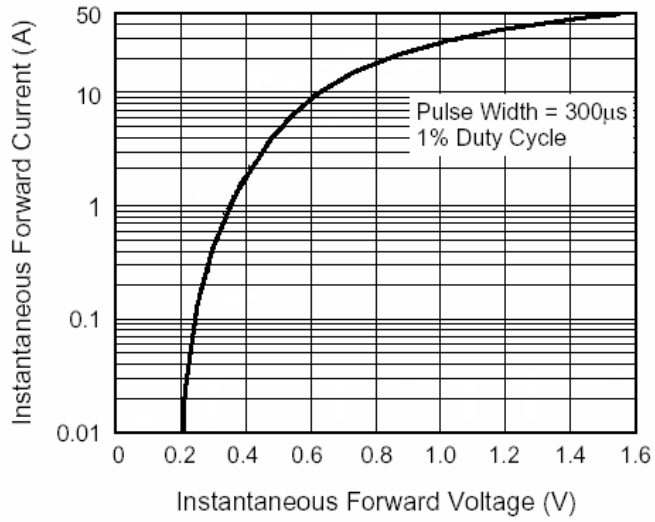

Fig. 4 - Typical Reverse Characteristics

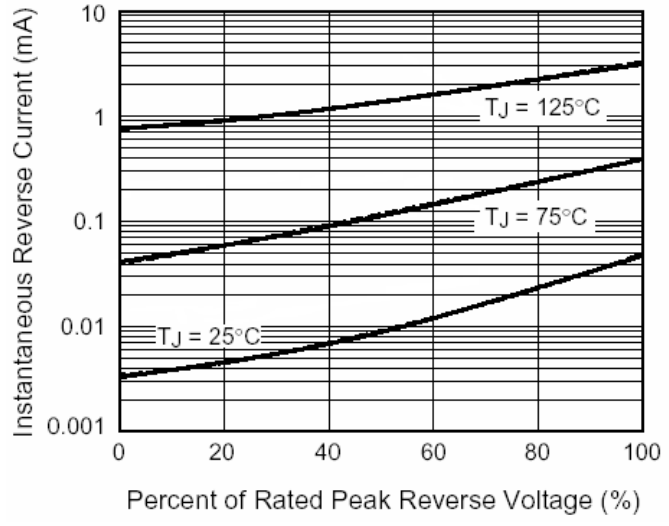

Fig. 5 - Typical Junction Capacitance

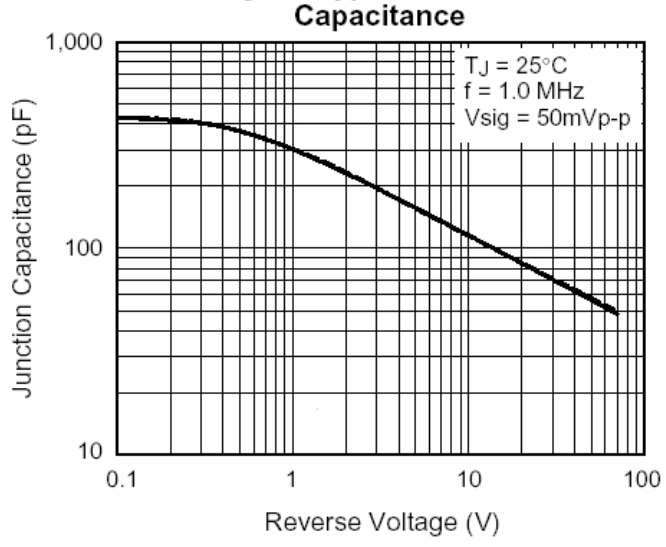

Fig. 6 - Typical Transient Thermal Impedance