SB260AL-E

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 60V CURRENT: 2.0A

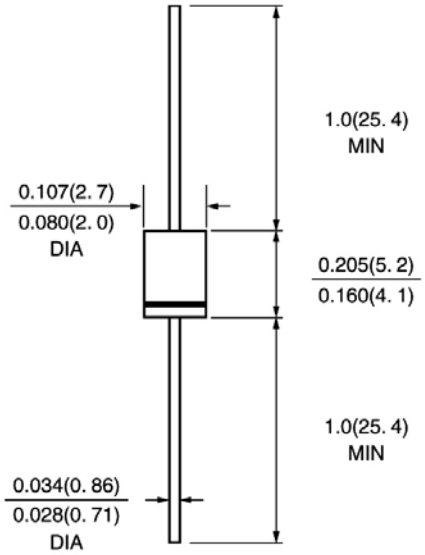
FEATURE

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
Halogen Free

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

DO-41\DO-204AL



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	SB260AL-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 0.375" lead length TL=75°C	If(av)	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0	A
Maximum Forward Voltage at 2.0A DC (Note 1)	Vf	0.60	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =90°C	Ir	500 10.0	uA mA
Typical Thermal Resistance (Note 2)	Rth(ja)	50.0	°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +125	°C

Note:
1. Pulse test :300uS pulse width ,1% duty cycle.
2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted

Fig. 1- Forward Current Derating Curve

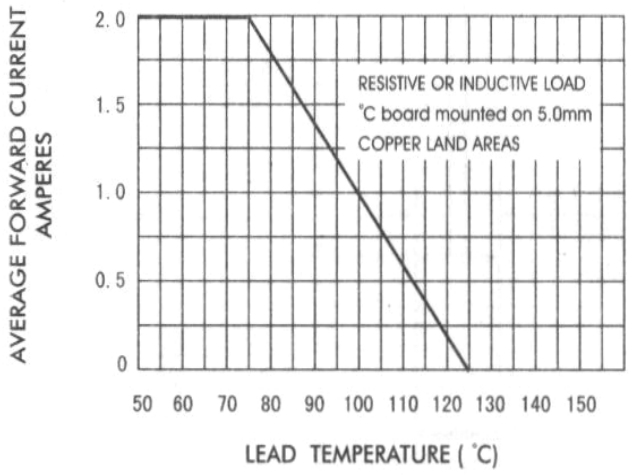


Fig. 2- Maximum Non-repetitive Peak Forward Surge Current

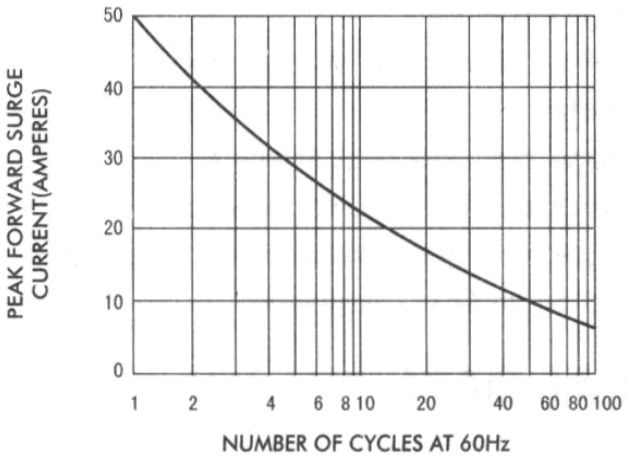


Fig. 3- Typical Instantaneous Forward Characteristics

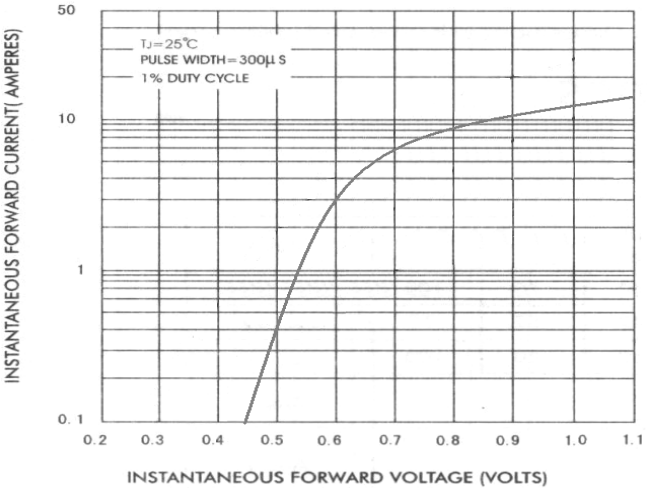


Fig. 4- Typical Reverse Characteristics

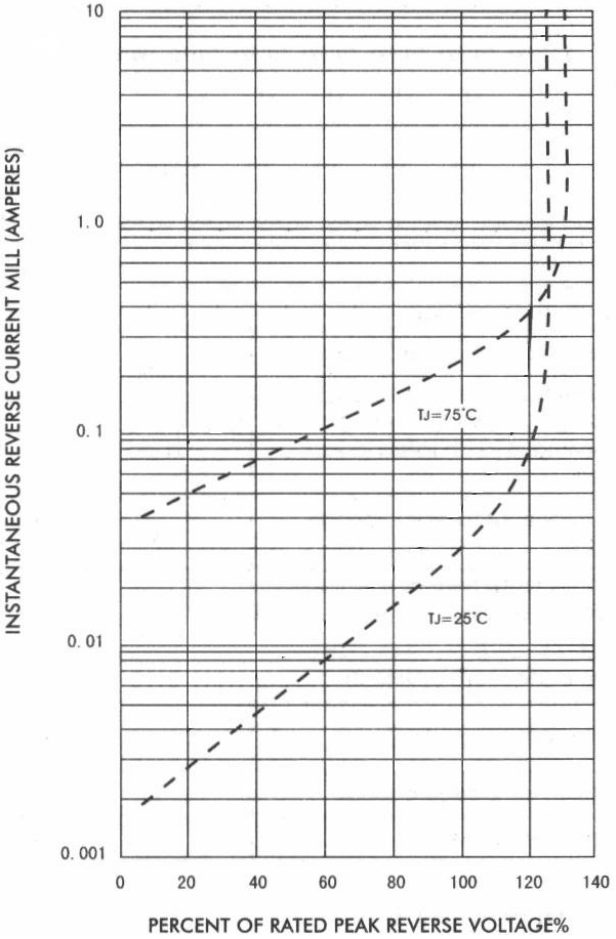


Fig. 5- Typical Junction Capacitance