

SB240A-E THRU SB260A-E

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 40 to 60V

CURRENT: 2.0A



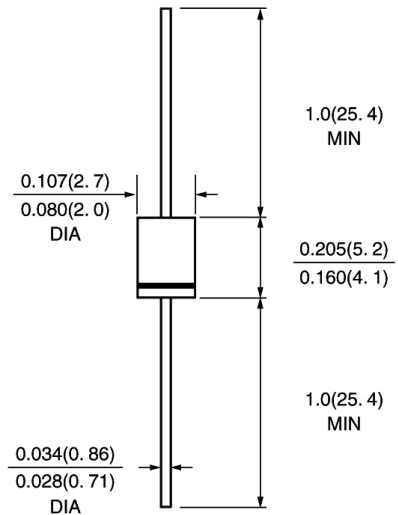
FEATURE

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	SB240A-E	SB260A-E	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	40	60	V
Maximum RMS Voltage	V _{rms}	35	42	V
Maximum DC blocking Voltage	V _{dc}	40	60	V
Maximum Average Forward Rectified Current 0.375" lead length TL=75°C	I _{f(av)}	2.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50.0		A
Maximum Forward Voltage at 2.0A DC (Note 1)	V _f	0.55	0.7	V
Maximum DC Reverse Current at rated DC blocking voltage	I _r	1.0 10.0		mA
Typical Thermal Resistance (Note 2)	R _{th(ja)}	60.0		°C /W
Storage and Operating Junction Temperature	T _{stg, 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

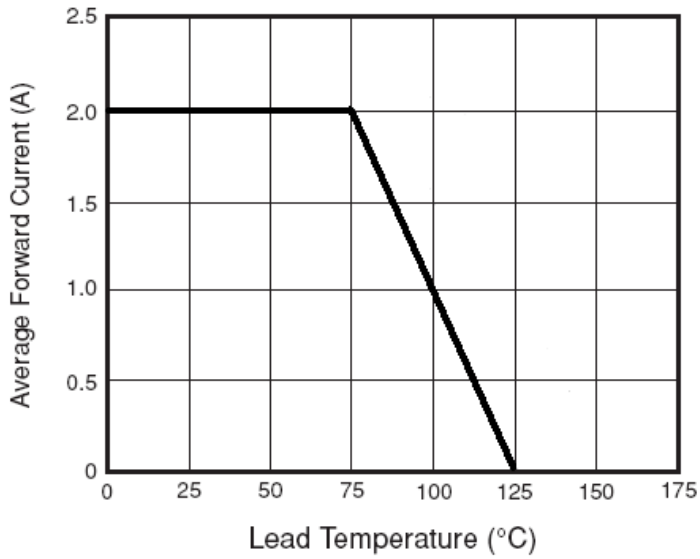


Fig. 2 - Maximum Non-repetitive Surge Current

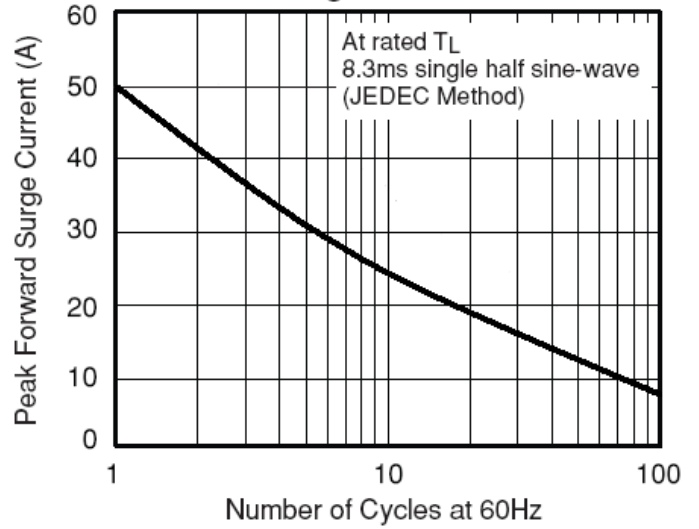


Fig. 3 - Typical Instantaneous Forward Characteristics

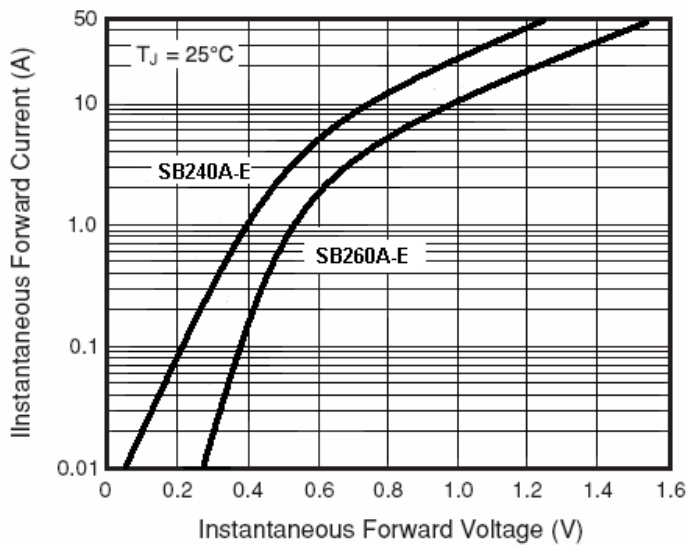


Fig. 4 - Typical Reverse Characteristics

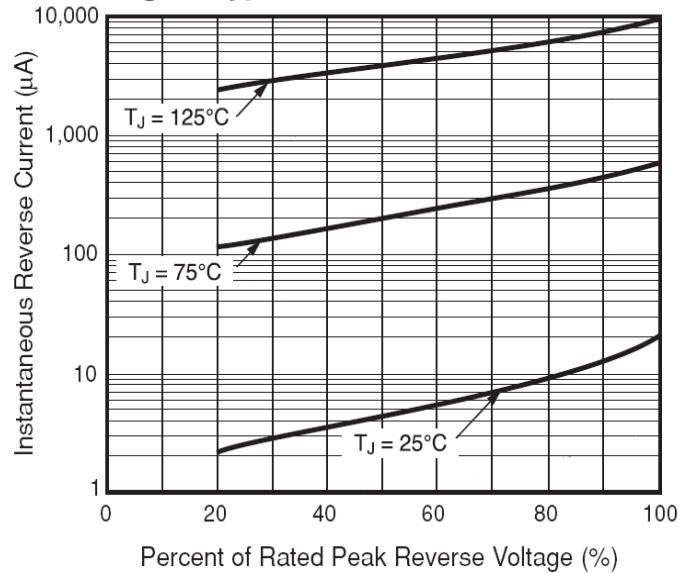


Fig. 5 - Typical Junction Capacitance

