GS5406-B-E

SURFACE MOUNT
GLASS PASSIVATED RECTIFIER

VOLTAGE：600V **CURRENT：3.0A**

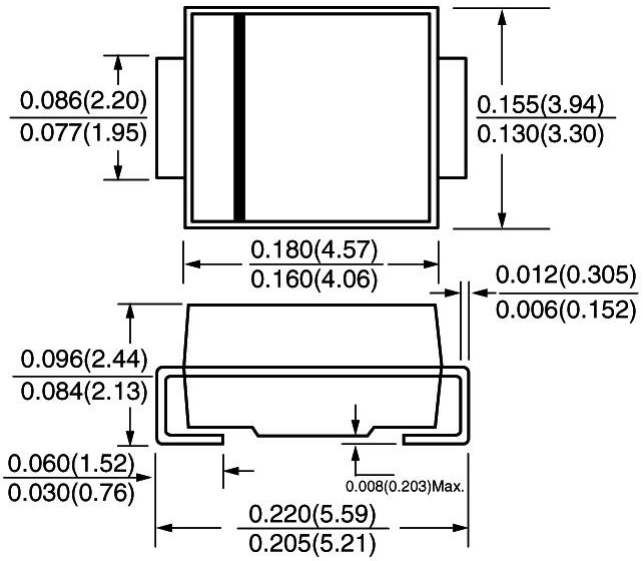
FEATURE

Ideal for surface mount pick and place application
Low profile package
Built-in strain relief
High surge capability
High temperature soldering guaranteed
260℃/10sec/at terminals
Halogen Free

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case: Molded with UL-94 class V-0 recognized Halogen Free Epoxy
Polarity: color band denotes cathode

SMB



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	GS5406-B-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified Current 3/8″lead length at T_L =100℃	If(av)	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	160	A
Maximum Forward Voltage at rated Forward current	Vf	1.1	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 300	μA
Typical Junction Capacitance (Note 1)	Cj	60.0	pF
Typical Thermal Resistance (Note 2) (Note 3)	Rth(jl) Rth(jc)	13.0 12.0	℃/W
Storage and Operating Temperature Range	Tj, Tstg	-55 to +150	℃

Note：
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to terminal mounted on 7×7mm copper pad area
3. Thermal Resistance from Junction to case mounted on 7×7mm copper pad area

Fig. 1 - Forward Current Derating Curve

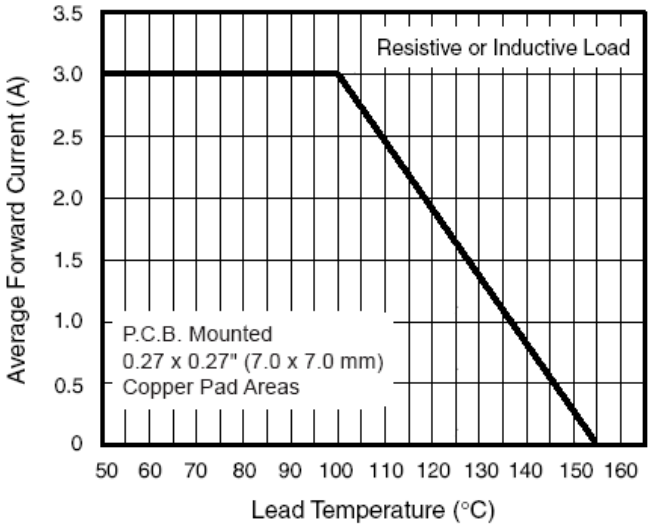


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

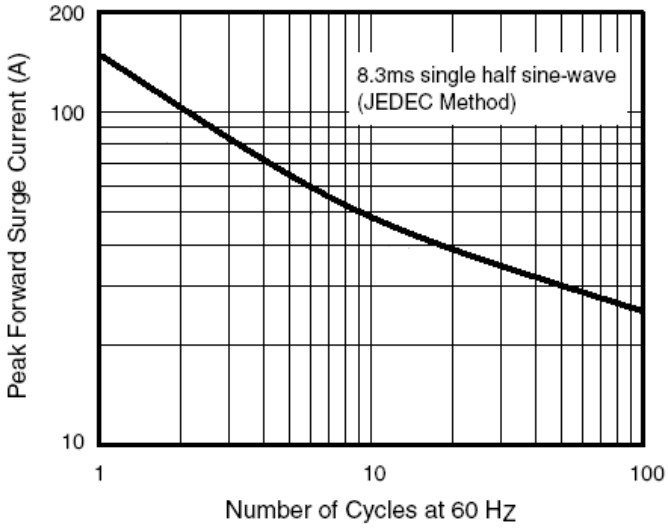


Fig. 3 - Typical Instantaneous Forward Characteristics

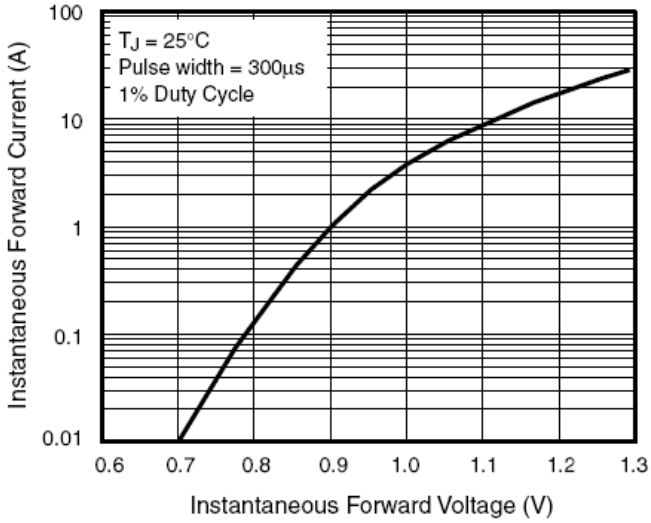


Fig. 4 - Typical Reverse Characteristics

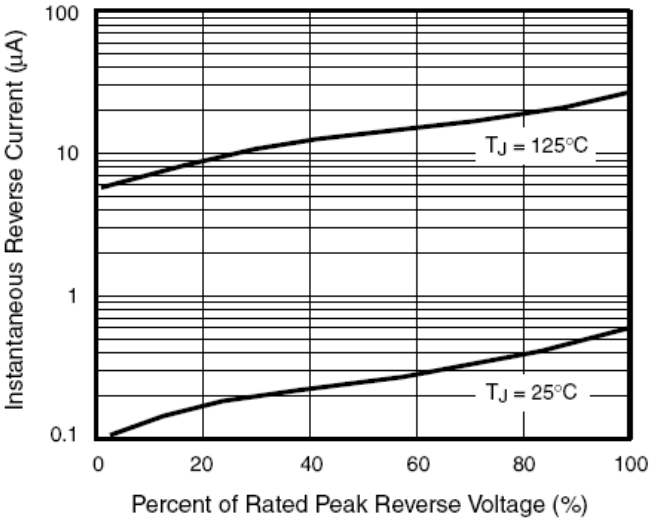


Fig. 5 - Typical Junction Capacitance