GS3A-B THRU GS3M-B

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE：50 TO 1000V　　CURRENT： 3.0A

GULF SEMI

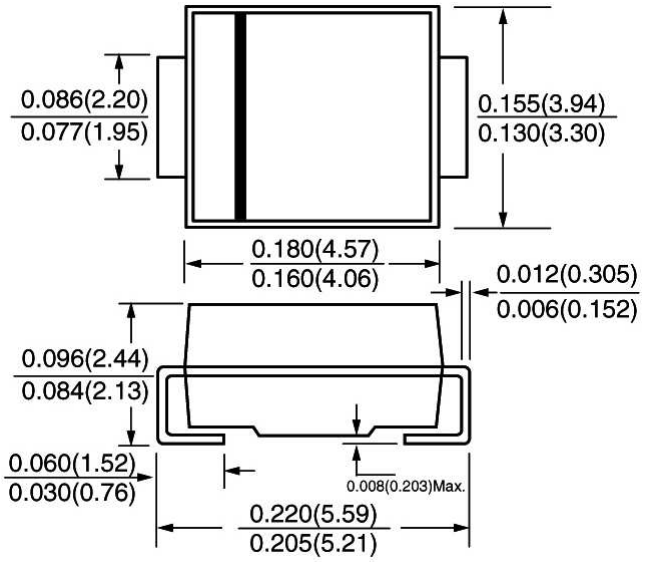
FEATURE

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

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

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, for capacitive load, derate current by 20%)

	SYMBOL	GS 3A-B	GS 3B-B	GS 3D-B	GS 3G-B	GS 3J-B	GS 3K-B	GS 3M-B	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8 ″ lead length at T_L =103℃	If(av)	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	100.0							A
Maximum Forward Voltage at rated Forward current	Vf	1.1							V
Rating for fusing (t <10ms) Tj=25℃	I^2t	40							A^2sec
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 250.0							μA
Typical Junction Capacitance (Note 1)	Cj	60.0							pF
Typical Thermal Resistance (Note 2)	Rth(jl)	13.0							℃/W
Storage and Operating Temperature Range	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 5×5mm copper pad area

Fig. 1 - Forward Current Derating Curve

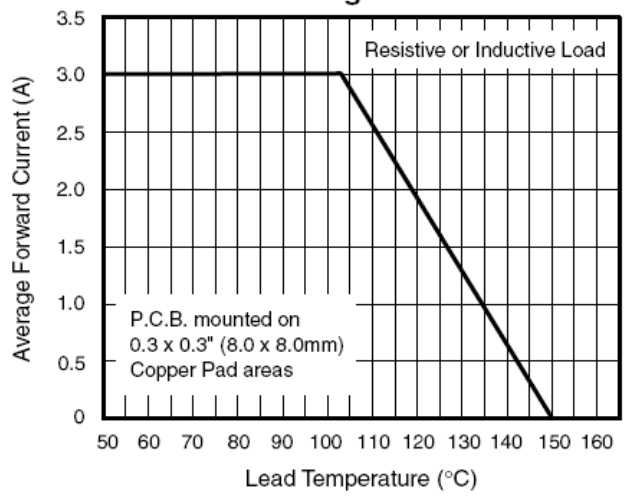


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

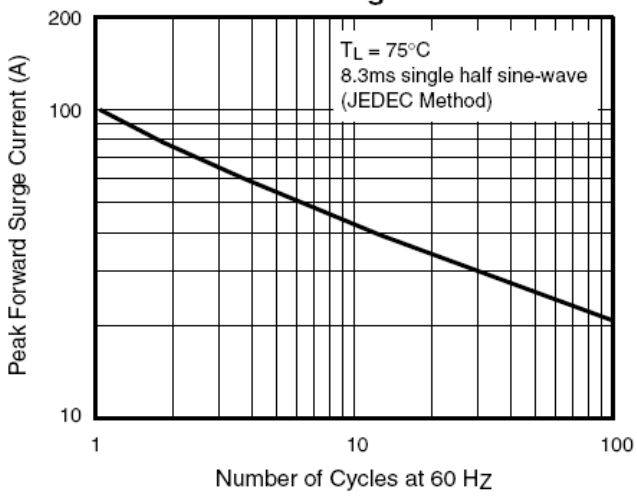


Fig. 3 - Typical Instantaneous Forward Characteristics

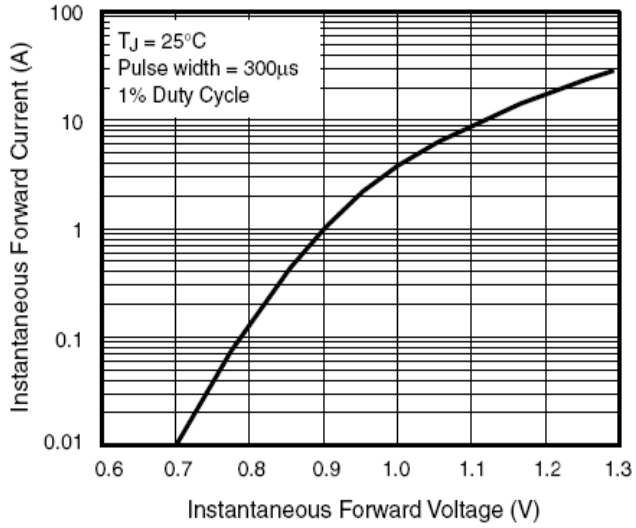


Fig. 4 - Typical Reverse Characteristics

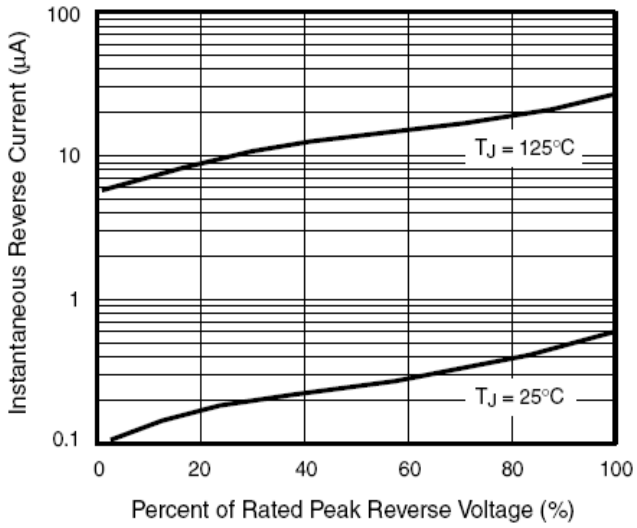


Fig. 5 - Typical Junction Capacitance

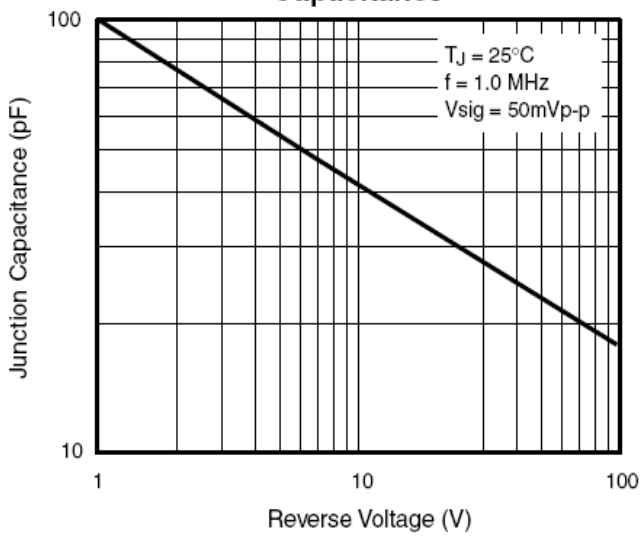


Fig. 6 - Typical Transient Thermal Impedance