

GS3A-B THRU GS3M-B

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE : 50 TO 1000V

CURRENT : 3.0A

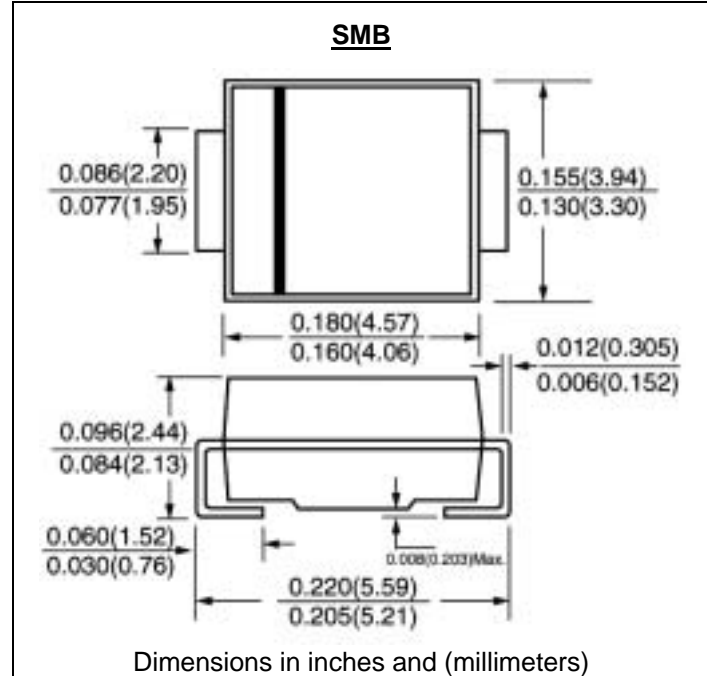


FEATURE

Ideal for surface mount pick and place application
 Low profile package
 Built-in strain relief
 High surge capability
 High temperature soldering guaranteed
 260 °C/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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C, 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	V _{rrm}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V	
Maximum DC blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current 3/8 lead length at T _L =75	I _{f(av)}	3.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	100.0								A
Maximum Forward Voltage at rated Forward current	V _f	1.1								V
Maximum DC Reverse Current Ta=25 at rated DC blocking voltage Ta=125	I _r	5.0 250.0								μ A μ A
Typical Junction Capacitance (Note 1)	C _j	60.0								pF
Typical Thermal Resistance (Note 2)	R(j-l)	13.0								/W
Storage and Operating Temperature Range	T _{stg}	-65 to +175								

Note :

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to terminal mounted on 5 x 5mm copper pad area¹

RATINGS AND CHARACTERISTIC CURVES GS3A-B THRU GS3M-B

FIG. 1 - FORWARD CURRENT DERATING CURVE

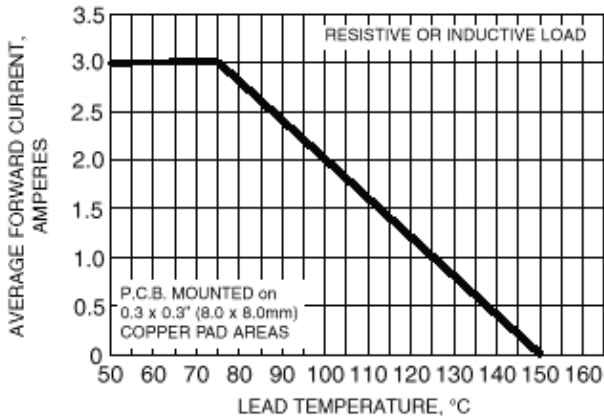


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

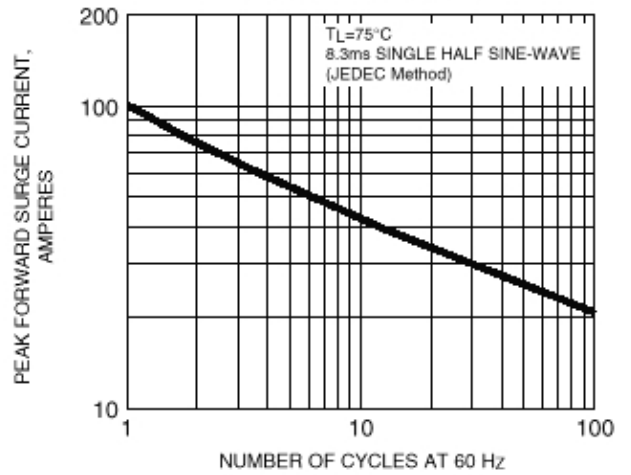


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

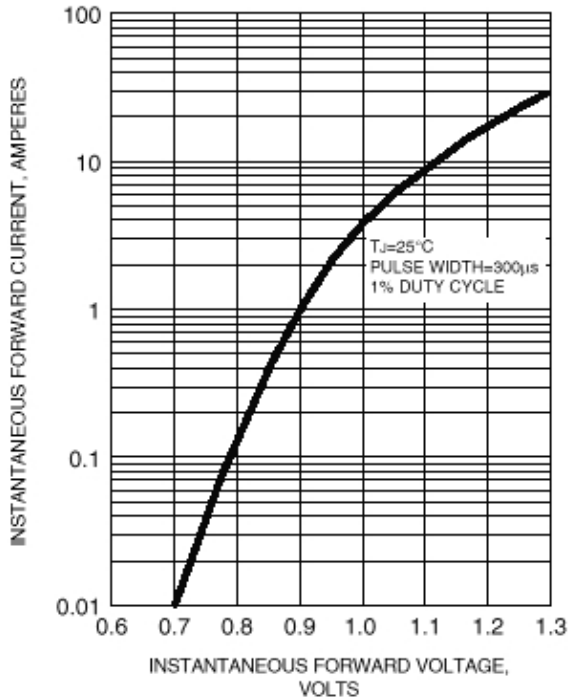


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

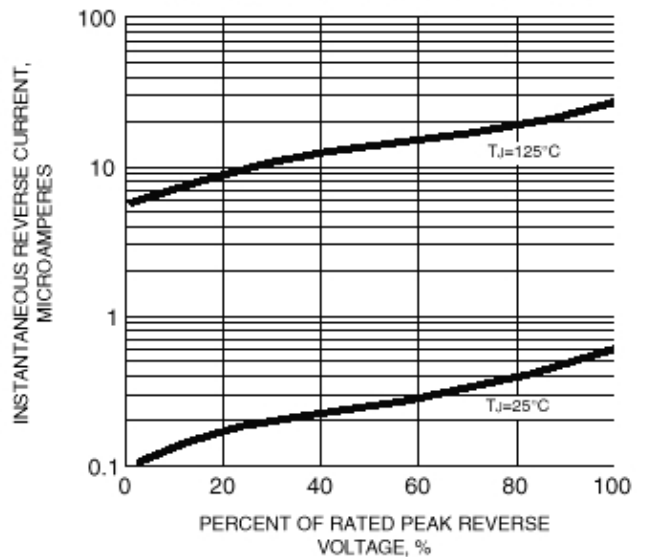


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

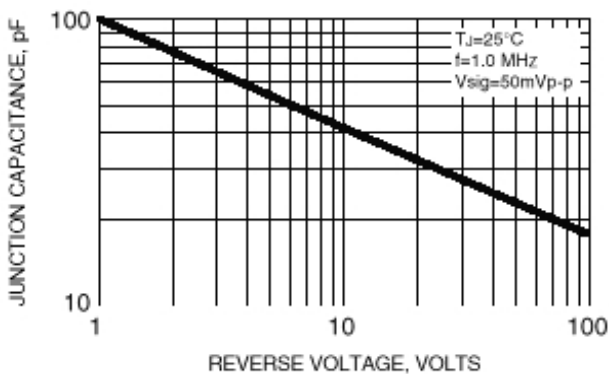


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

