

# GS2A-A THRU GS2M-A

## SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE: 50 TO 1000V      CURRENT: 2.0A



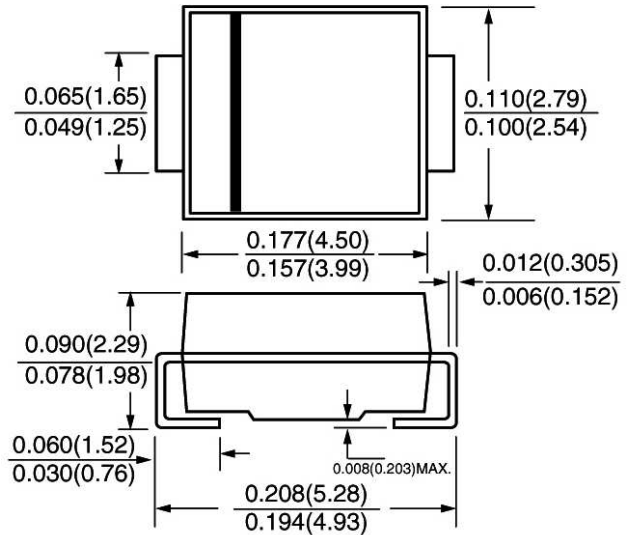
### FEATURE

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

### SMA / DO-214AC



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

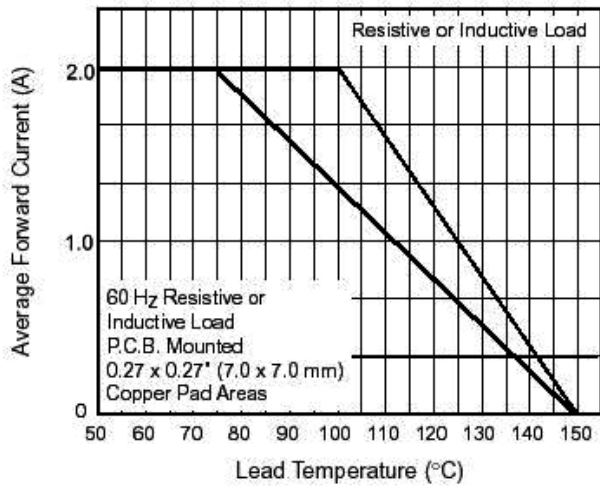
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,  
 for capacitive load, derate current by 20%)

	SYMBOL	GS 2A-A	GS 2B-A	GS 2D-A	GS 2G-A	GS 2J-A	GS 2K-A	GS2 M-A	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified	I <sub>f(av)</sub>	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	50.0							A
Maximum Forward Voltage at rated Forward current	V <sub>f</sub>	1.1							V
Maximum DC Reverse Current      T <sub>a</sub> =25°C at rated DC blocking voltage      T <sub>a</sub> =125°C	I <sub>r</sub>	5.0 150.0							μ A μ A
Typical Junction Capacitance      (Note 1)	C <sub>j</sub>	30.0							pF
Typical Thermal Resistance      (Note 2)	R <sub>th(jl)</sub>	16.0							°C/W
Storage and Operating Temperature	T <sub>stg</sub>	-50 to +150							°C

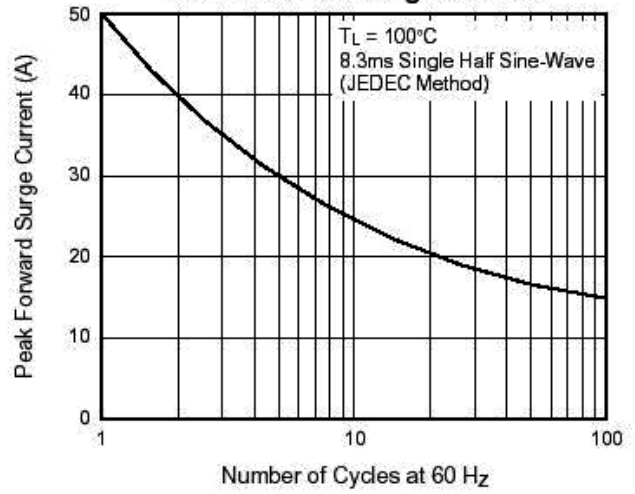
Note:

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

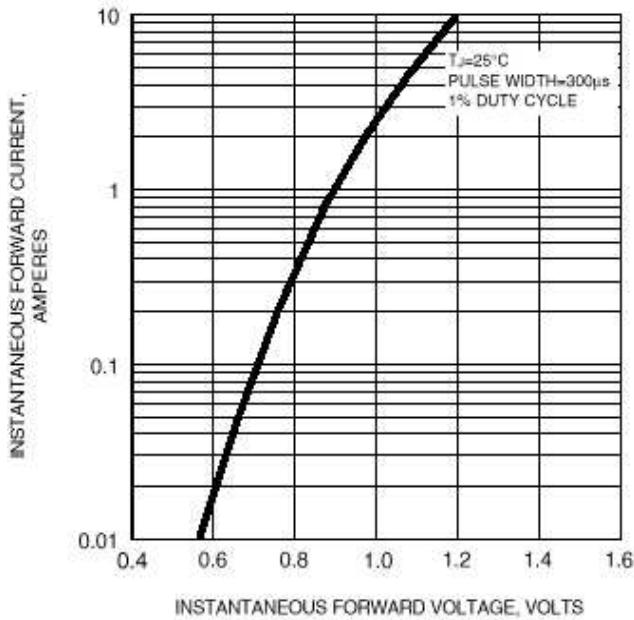
**Fig. 1 — Forward Current Derating Curve**



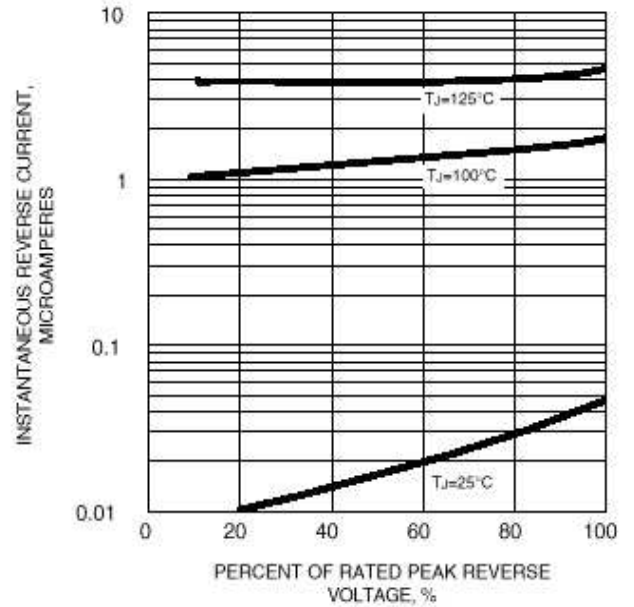
**Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current**



**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE**

