GS2A THRU GS2M

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE：50 TO 1000V CURRENT： 2.0A

VOLTARISTECH INC.
POWER • PRECISION • INNOVATION

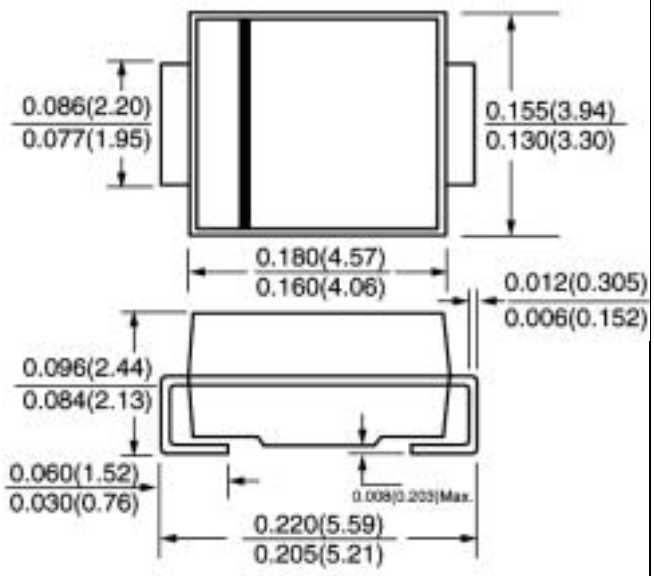
FEATURE

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

SMB／DO-214AA



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 2A	GS 2B	GS 2D	GS 2G	GS 2J	GS 2K	GS 2M	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	If(av)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0							A
Maximum Forward Voltage atrated Forward current	Vf	1.1							V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 150.0							μ A μ A
Typical Junction Capacitance (Note 1)	Cj	30.0							pF
Typical Thermal Resistance (Note 2)	R(jl)	16.0							℃/W
Storage and Operating Temperature	Tstg	-50 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

RATINGS AND CHARACTERISTIC CURVES GS2A THRU GS2M

Fig. 1 — Forward Current Derating Curve

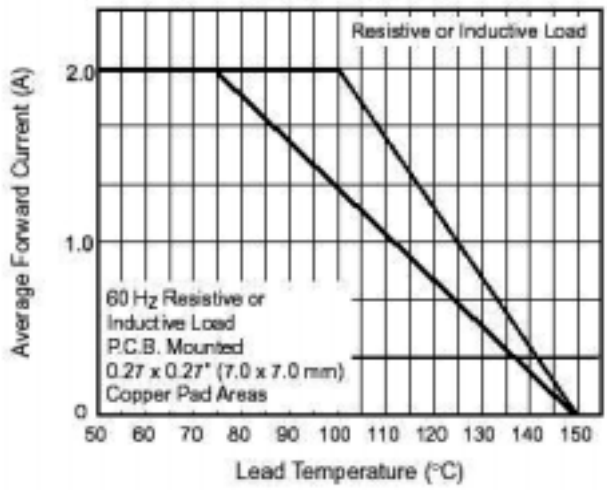


Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current

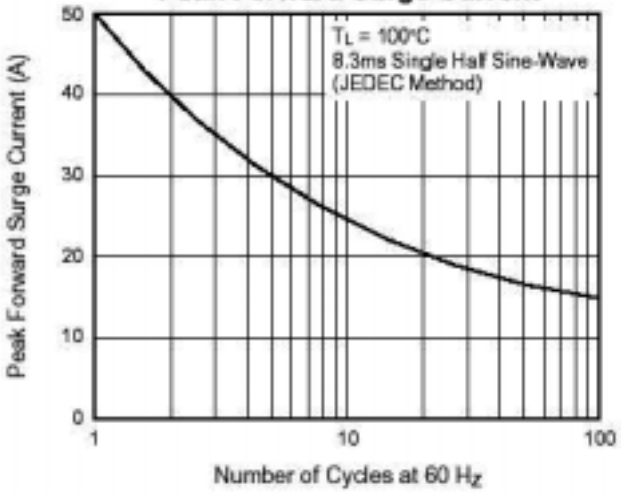


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

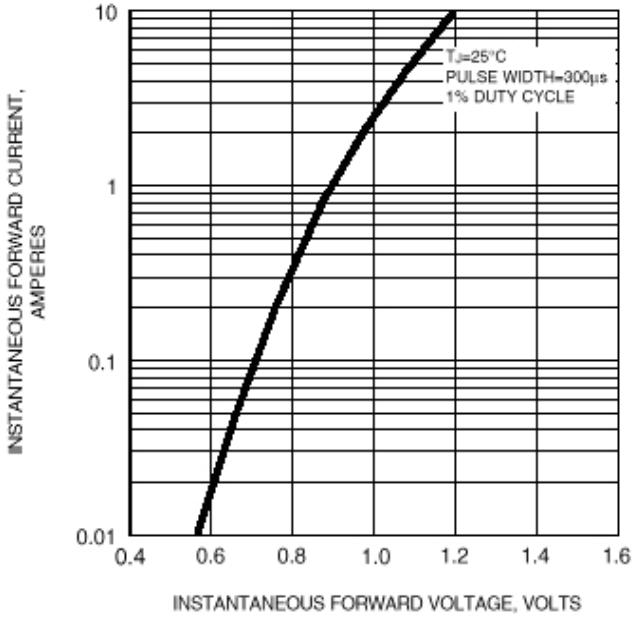


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

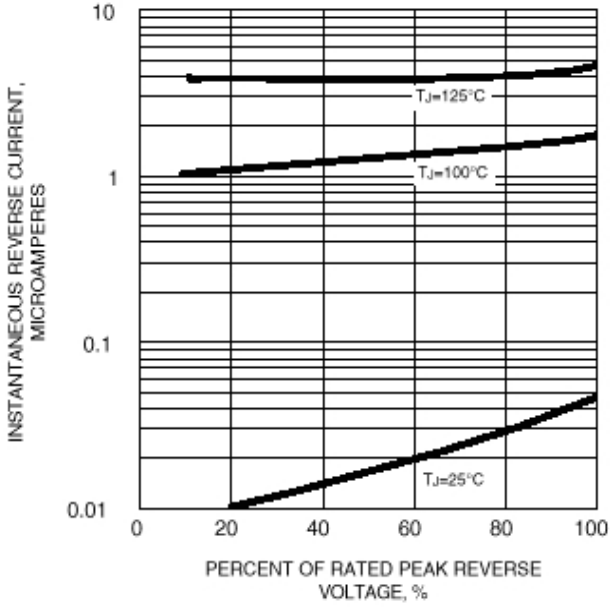


FIG. 5 - TYPICAL JUNCTION CAPACITANCE