



DATA SHEET

GS2A THRU GS2M

SURFACE MOUNT RECTIFIER GLASS PASSIVATED JUNCTION

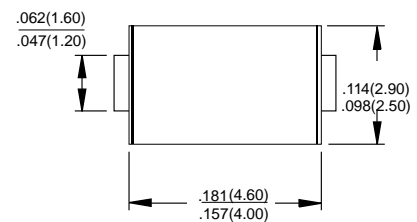
VOLTAGE- 50 to 1000 Volts CURRENT - 2.0 Amperes



FEATURES

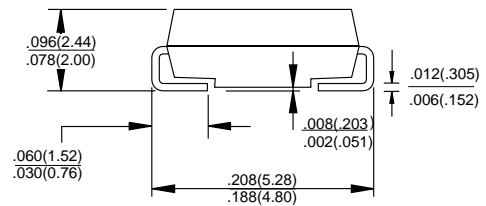
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Low Forward Drop
- High temperature soldering : 260 °C / 10 seconds at terminals
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- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

SMA/DO-214AC Unit:inch(mm)



MECHANICAL DATA

- Case : JEDEC D O-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750 , Method 2026
- Polarity : Indicated by cathode band
- Standard packaging: 12mm tape (EIA-481)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz , resistive or inductive load.

For capacitive load, derate current by 20%.

	SYM BOLS	G S2 A	G S2B	G S2D	G S2G	G S2J	G S2K	GS2 M	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, at TL=75°C	I (AV)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC method)	IFSM	60.0							A
Maximum Instantaneous Forward Voltage at 2.0A	VF	1.1							V
Maximum DC Reverse Current TA=25°C	IR	5.0							µA
at Rated DC Blocking Voltage TA=125°C		100							µA
Maximum Reverse Recovery Time(Note 1) TJ=25°C	TRR	2.5							µs
Typical Junction Capacitance (Note 2)	CJ	12							PF
Maximum Thermal Resistance(Note 3)	R θJA	25							°C /W
Operating and Storage Temperature Range	TJ , TSTG	- 55 to +150							°C

NOTES:

1. Reverse Recovery Test Condition: IF=0.5A, IR=1.0A, I rr=0.25A
2. Measured at 1 MHz and applied Vr = 4.0 volts.
3. 8.0 mm² (.013mm thick) land areas.

RATING AND CHARACTERISTIC CURVES

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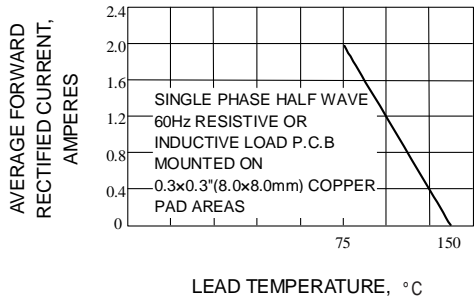


Fig. 1-FORWARD CURRENT DERATING CURVE

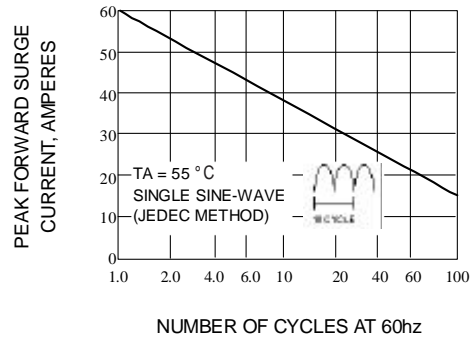


Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

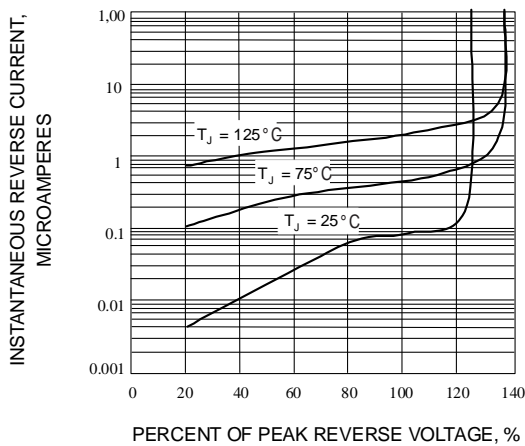


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

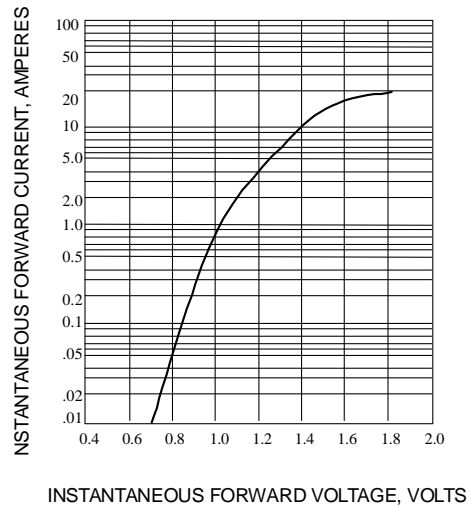


Fig. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

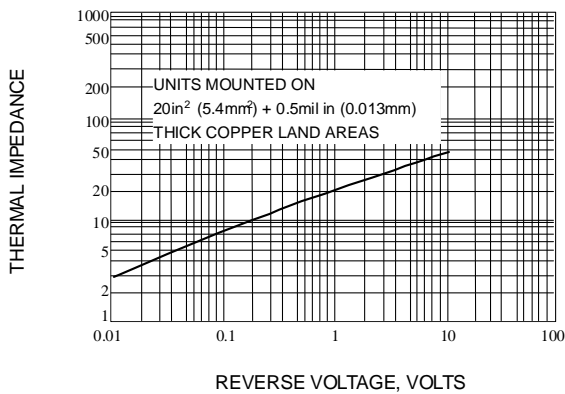


Fig. 5-TRANSIENT THERMAL IMPEDANCE

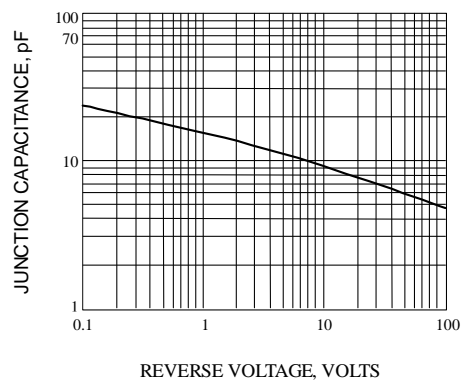


Fig. 6-TYPICAL JUNCTION CAPACITANCE