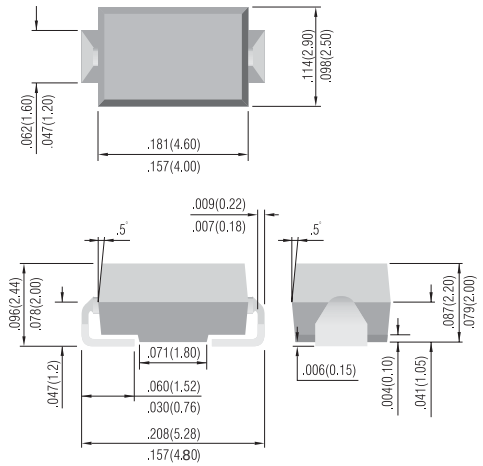
GS1AW~GS1MW

SURFACE MOUNT GENERAL PURPOSE RECTIFIER

VOLTAGE 50 to 1000 Volts **CURRENT** 1.0 Amperes

SMA(W) Unit: inch (mm)



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
- Plastic Silicon Passivated
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SMA(W) molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 12 mm tape (EIA-481)
- Weight: 0.002 ounce, 0.064 gram

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%.

PARAMETER	SYMBOL	GS1AW	GS1BW	GS1DW	GS1GW	GS1JW	GS1KW	GS1MW	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 Current at T_L=50 °C	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30							A
Maximum Forward Voltage at 1.0A DC	V_F	1.1							V
Maximum DC Reverse Current at T_J=25°C Rated DC Blocking Voltage T_J=100°C	I_R	5.0 50							µA
Typical Junction capacitance (Note 1)	C_J	12							pF
Typical Junction Resistance(Note 2)	$R_{\theta JL}$	30							°C / W
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to +150							°C

NOTES:1. Measured at 1 MHz and applied V_r = 4.0 volts.
2. 8.0 mm^2 (.013mm thick) land areas.

GS1AW~GS1MW

RATING AND CHARACTERISTIC CURVES

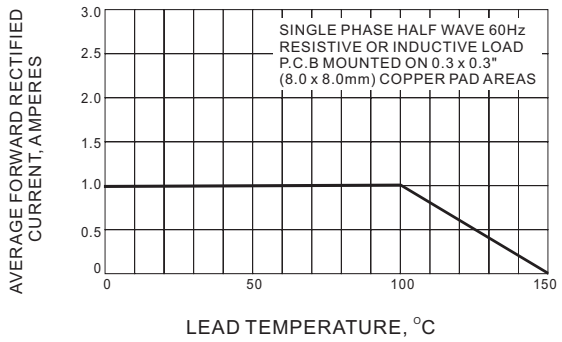


Fig.1 FORWARD CURRENT DERATING CURVE

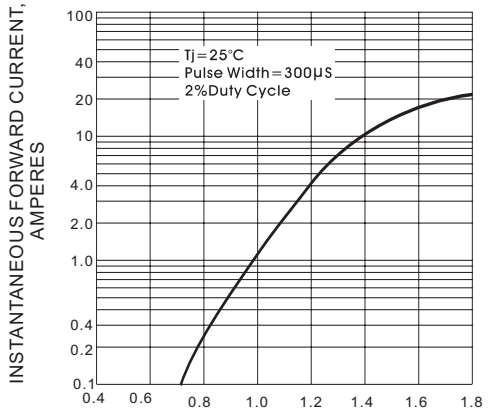


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

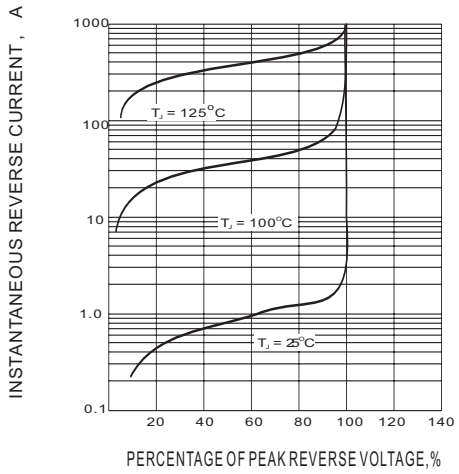


Fig.3-TYPICAL REVERSE CHARACTERISTIC

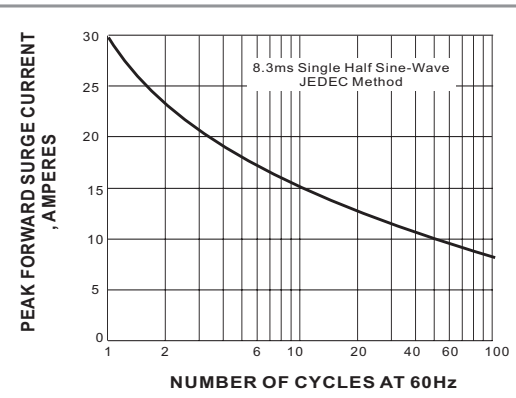


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

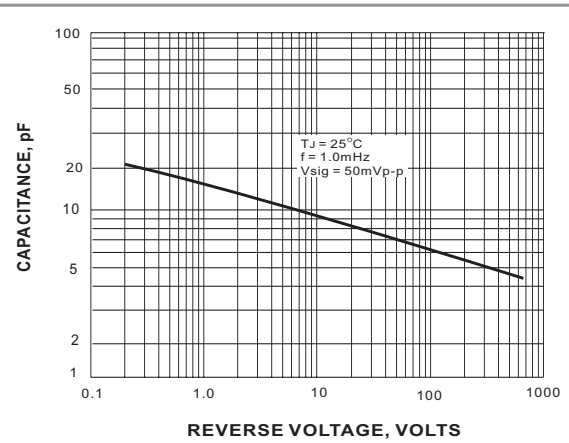
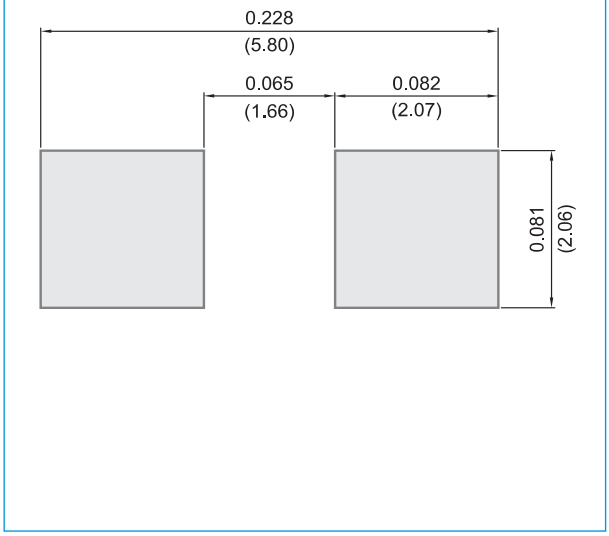


Fig.5 TYPICAL JUNCTION CAPACITANCE

GS1AW~GS1MW

MOUNTING PAD LAYOUT

SMA Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 7.5K per 13" plastic Reel

  T/R - 1.8Kper 7" plastic Reel

LEGAL STATEMENT

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching ***category:***

Click to view products by Panjit ***manufacturer:***

Other Similar products are found below :

053684A 057245E 10A06-TP 10A10 10A10 10A10 10A10G 10A2 10A4 150K20A 150K60A 150K80A 150KR80A 1A1 1A2 1A3 1A4 1A4 1A5 1A6 1A7 1A7 1A7 1A7 1A7A 1G7 1N3064TR 1N3070 1N3070TR 1N3295A 1N3295AR 1N3296A 1N3493R-SGS 1N3595 1N3595TR 1N3595US 1N3600 1N3600 TR 1N4001 1N4001 1N4001 1N4001 1N4001 1N4001 1N4001 1N4001A 1N4001G 1N4001G 1N4001-T 1N4001W