



#### SURFACE MOUNTGENERAL PURPOSE RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

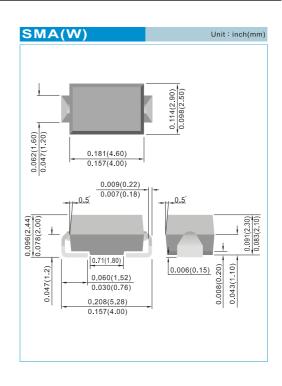
#### **FEATURES**

- For surface mounted applications in order to optimize board space
- · 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
- · Glass Passivated Junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **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 ounces, 0.068 grams





#### 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%.

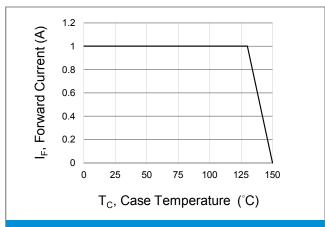
PARAMETER	SYMBOL	GS1AWG	GS1BWG	GS1DWG	GS1GWG	GS1JWG	GS1KWG	GS1MWG	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	1							Α
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	Ігям	30							Α
Maximum Forward Voltage at 1A DC	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	lR	1						μА	
Typical Junction Capacitance Measured at 1MHz and applied V <sub>R</sub> =4V	Сл	7						pF	
Typical Junction Resistance (Note 1) (Note 2) (Note 3)	Reja Rejl Rejc	150 15 4.4						°C / W	
Operating and Storage Temperature Range	T <sub>J</sub> ,Tsтg			•	-55 to +150	•		·	°C

Notes:1.Mounted on a FR4 PCB, single-sided copper, mini pad.

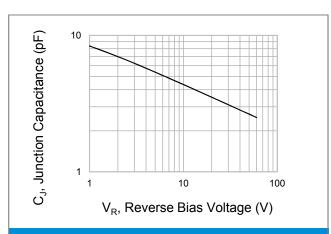
- 2.Mounted on a FR4 PCB, single-sided copper, with 76.2 x 114.3mm copper pad area.
- 3.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.







**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

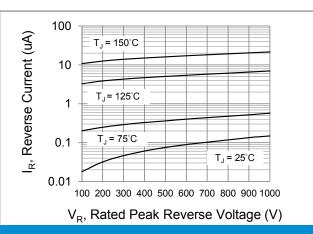
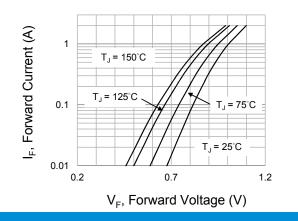


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Forward Characteristics** 

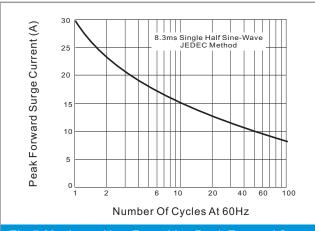
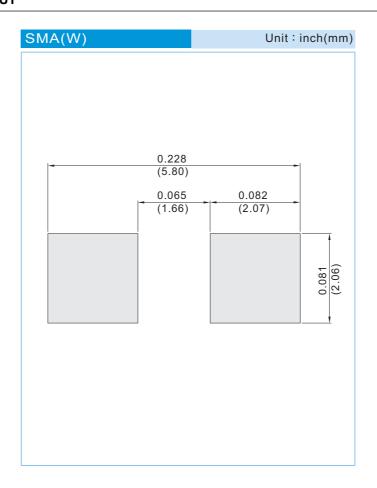


Fig.5-Maximum Non-Repetitive Peak Forward Surge Current





### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





### Part No\_packing code\_Version

GS1AWG\_R1\_00001 GS1AWG\_R2\_00001

### For example:



	Version Code XXXXX					
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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