

SURFACE MOUNTGENERAL PURPOSE RECTIFIER

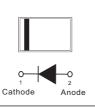
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

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



SMA(W) Unit : inch(mm) 0.062(1.60) 0.047(1.20) 0.181(4.60) 0.157(4.00) 0.009(0.22) 0.007(0.18) 0.5 0.5 0 096(2 44) 0.71(1.80) 0.006(0.15) 0.008(0.70) 0.008(0.70) 0.008(0.70) 0.043(1.10) 0.047(1.2) 0.060(1.52) 0.030(0.76) 0.208(5.28) 0.157(4.00)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

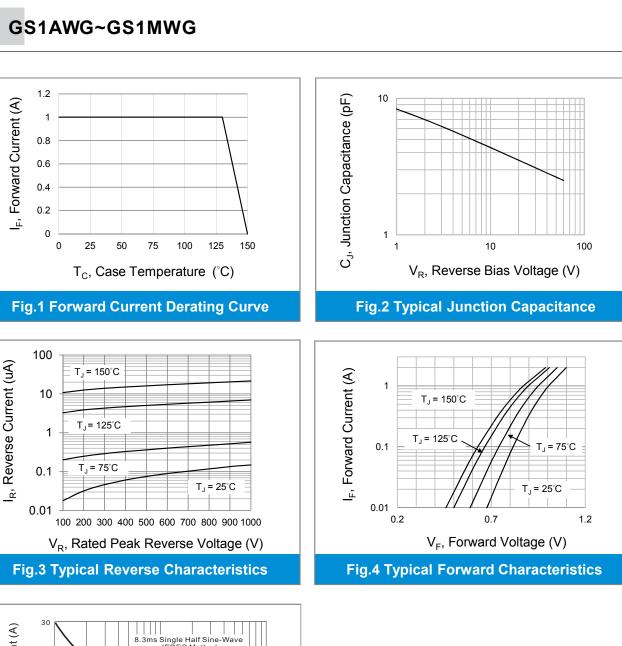
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

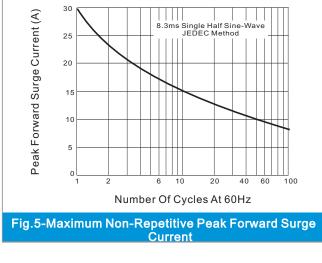
PARAMETER	SYMBOL	GS1AWG	GS1BWG	GS1DWG	GS1GWG	GS1JWG	GS1KWG	GS1MWG	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	IF(AV)	1							А
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	IFSM	30							А
Maximum Forward Voltage at 1A DC	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	1						μA	
Typical Junction Capacitance Measured at 1MHz and applied $V_{\mbox{\scriptsize R}}{=}4V$	CJ	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	TJ,TSTG				-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 100cm² copper pad area.

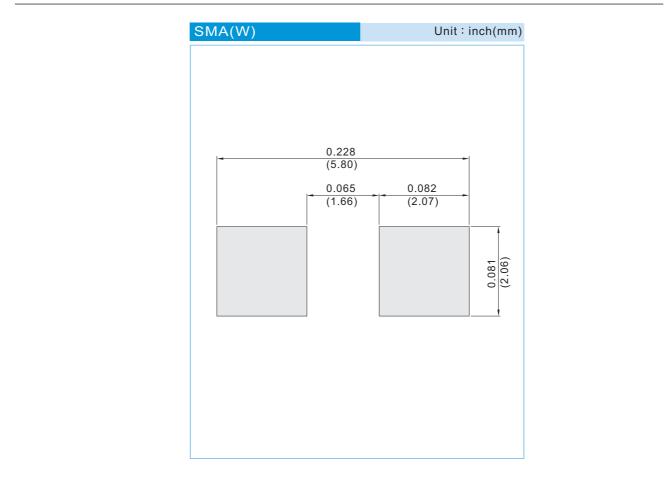








MOUNTING PAD LAYOUT



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 :

RB500V-40_R2_00001



Serial number
Version code means HF
Packing size code means 13"

Packing type means T/R

	Version Code XXXXX					
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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			



Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit: GS1MWG_R1_00001 GS1MWG_R2_00001