

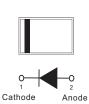


FEATURES

- · For surface mounted applications in order to optimize board space
- · Easy pick and place
- Fast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- · Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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



SMA(W)Unit : inch(mm) (0521)2000 (0

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%.

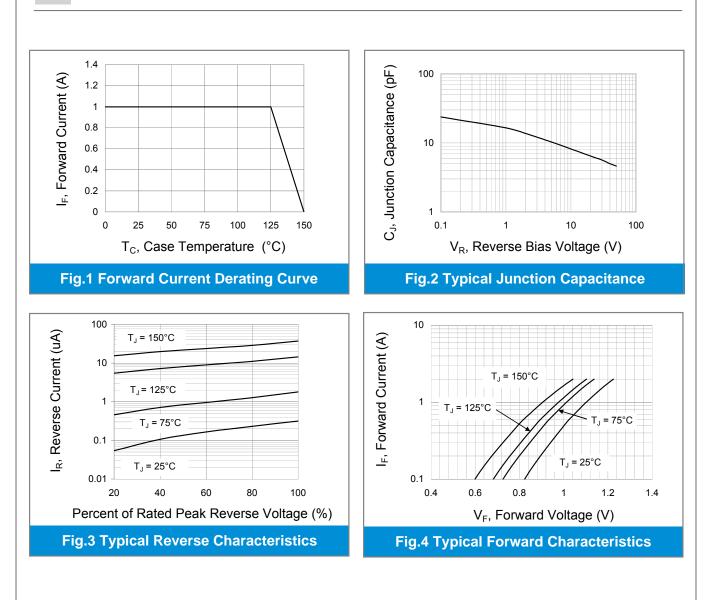
PARAMETER		RS1AWG	RS1BWG	RS1DWG	RS1GWG	RS1JWG	RS1KWG	RS1MWG	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	800	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Rectified Current	I _{F(AV)}	1					А		
eak Forward Surge Current : 8.3ms single half sine- ave superimposed on rated load (JEDEC method) I _{FSM} 30					А				
Maximum Forward Voltage at 1A	V _F	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage		5					μA		
Maximum Junction Capacitance (V _R =4V,f=1MHz)		15							рF
Typical Junction Resistance (Note 1) (Note 2)	$R_{_{ heta JA}}$ $R_{_{ heta JL}}$	150 35					°C / W		
Maximum Reverse Recovery Time (Note 3)	t _{rr}		1	50		250	5	00	ns
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150			°C				

NOTES:1. Mounted on an FR4 PCB, single-sided copper, mini pad.

2. Mounted on an FR4 PCB, single-sided copper, with 76.2 x 114.3mm copper pad area.

3. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, I_{rr}=0.25A.







MOUNTING PAD LAYOUT SMA(W) Unit : inch(mm) 0.228 0.065 0.082 (1.66) (2.07) (90) 0.000 0.000 000 0.000

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

RS1AWG_R1_00001 RS1AWG_R2_00001

For example :

RB500V-40_R2_00001





• Packing type means T/R

Packing Code XX					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 permissionfrom Siyang Grande Electronics Co., Ltd..
- Siyang Grande Electronics Co., Ltd. reserves the rights to make changes of the content herein thedocument anytime without notification. Please refer to our website for the latest document.
- Siyang Grande Electronics Co., Ltd. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Siyang Grande Electronics Co., Ltd. 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.Siyang Grande Electronics Co., Ltd. makes no representation or warranty that such applications will besuitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring highlevel of reliability or relating to human life and for any applications concerning life-savingor life-sustaining, such as medical instruments, transportation equipment, aerospacemachinery et cetera. Customers using or selling these products for use in such applicationsdo so at their own risk and agree to fully indemnify Siyang Grande Electronics Co., Ltd. for any damagesresulting from such improper use or sale.
- Since Grande uses lot number as the tracking base, please provide the lot number for tracking when complaining.