

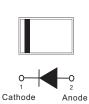


### FEATURES

- · 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%.

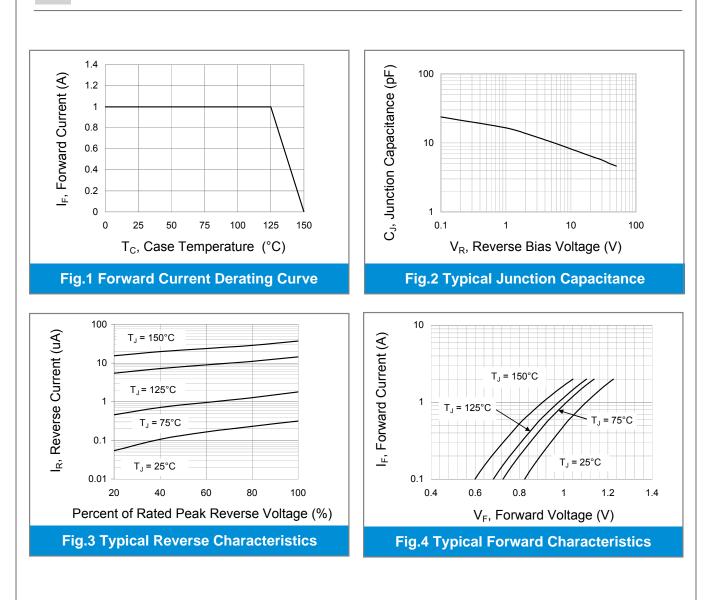
PARAMETER		RS1AWG	RS1BWG	RS1DWG	RS1GWG	RS1JWG	RS1KWG	RS1MWG	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	800	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Rectified Current	I <sub>F(AV)</sub>	1					А		
eak Forward Surge Current : 8.3ms single half sine- ave superimposed on rated load (JEDEC method) I <sub>FSM</sub> 30					А				
Maximum Forward Voltage at 1A	V <sub>F</sub>	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage		5					μA		
Maximum Junction Capacitance (V <sub>R</sub> =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 <sub>rr</sub>		1	50		250	5	00	ns
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>stg</sub>	-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 <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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