



SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 1 Amperes

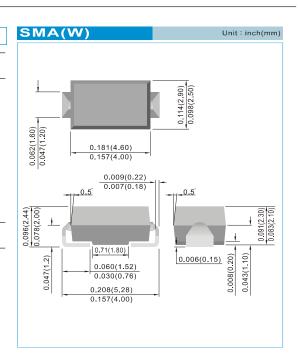
FEATURES

- 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





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	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	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	
Peak Forward Surge Current : 8.3ms single half sine- wave 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					μА		
Maximum Junction Capacitance (V _R =4V,f=1MHz)		15						pF	
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: $I_{\text{F}}{=}0.5\text{A},\ I_{\text{R}}{=}1\text{A},\ I_{\text{rr}}{=}0.25\text{A}.$





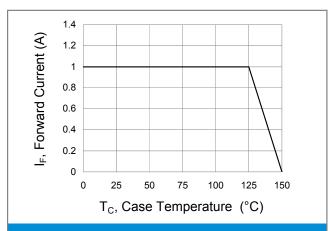


Fig.1 Forward Current Derating Curve

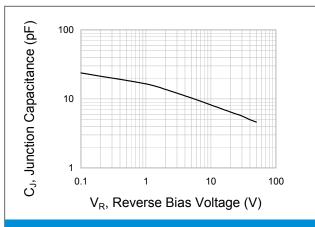


Fig.2 Typical Junction Capacitance

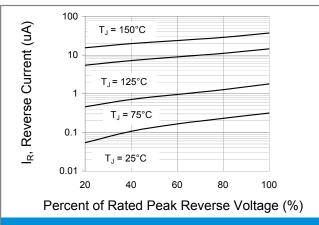


Fig.3 Typical Reverse Characteristics

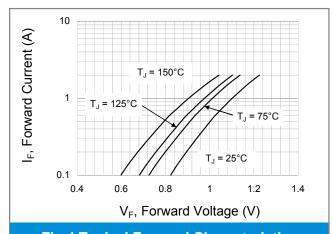
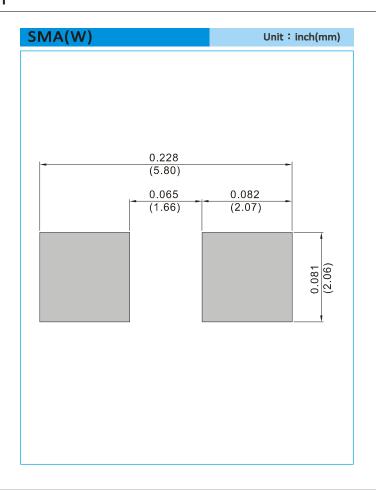


Fig.4 Typical Forward Characteristics





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

RS1AWG_R1_00001 RS1AWG_R2_00001

For example:



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						





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