



SURFACE MOUNT FAST RECOVERY RECTIFIER

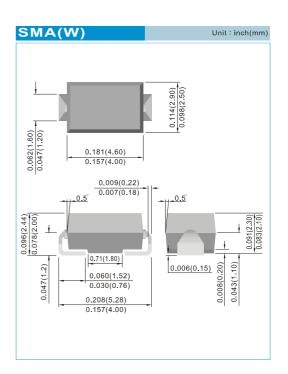
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

FEATURES

- For surface mounted applications
- · Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2011/65/EU directive
- 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 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	RS1AW	RS1BW	RS1DW	RS1GW	RS1JW	RS1KW	RS1MW	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	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Rectified Current $T_L=90^{\circ}$	C I _{F(AV)}	1.0						А	
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30						А	
Maximum Forward Voltage at 1.0A	V _F	1.3						V	
Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=125^{\circ}C$		5.0 150							μА
Maximum Reverse Recovery Time (Note 1)	t _{rr}	150		250	500		ns		
Maximum Junction capacitance (Note 2)	C	12					pF		
Typical Junction Resistance(Note 3)	$R_{_{ heta JL}}$	100 32				°C / W			
Operating Junction and Storage Temperature Rating	T _J ,T _{STG}	-55 to +150						°C	

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

- 2. Measured at 1 MHz and applied V_{r} = 4 volts.
- 3. 8 mm^2 (0.013 mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

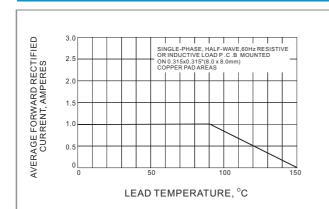


Fig.1 FORWARD CURRENT DERATING CURVE

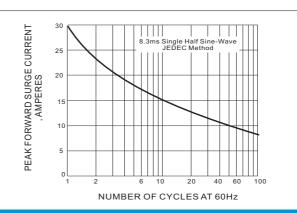


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

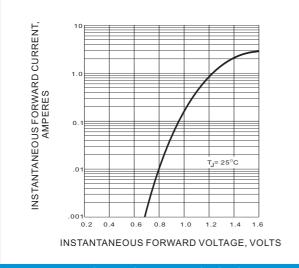


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

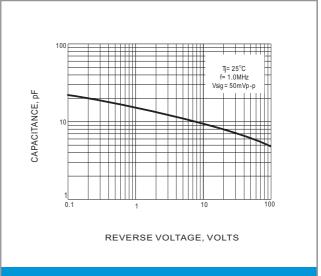
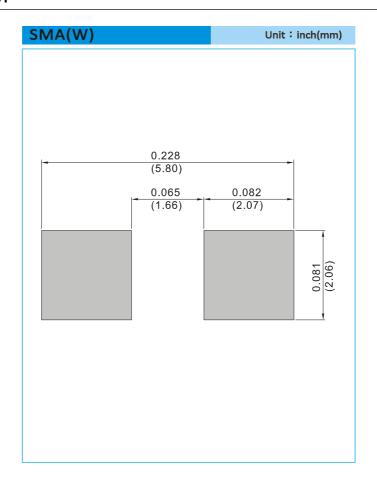


Fig.4 TYPICAL JUNCTION CAPACITANCE





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

RS1AW_R1_00001 RS1AW_R2_00001

For example:



Packing Code XX			Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st 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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