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RS1A-RS1M SURFACE MOUNT SUPER FAST RECTIFIER

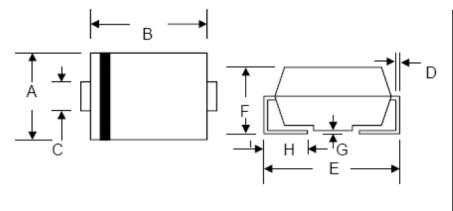
Features:

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250 C/10 seconds at terminals
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- · Additional testing can be offered upon request

Mechanical Data:

- Case: JEDEC DO-214AC molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.06 grams

Mechanical Dimensions: In inches / mm



	SMA/DO-214AC							
Dim.	Min.	Max.	Max. Min.					
Α	2.18	2.90	0.086	0.114				
В	3.99	4.60 0.157		0.181				
С	1.29	1.70	0.508	0.067				
D	0.152	0.305	0.006	0.012				
E	4.70	5.31	0.185	0.209				
F	1.70	2.50	0.067	0.098				
G	0.051	0.203	0.002	0.008				
Н	0.76	1.55	0.030	0.610				
	In n	nm	In inch					

SMA

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Marking Diagram:

Where XXXXX is YYWWL



RS1A = Part Name
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
RS1A-RS1M	SMA (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current @TL = 9	0°C lo	1.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)			30					А	
Forward Voltage @I _F =	1.0A VFM		1.30						V
Peak Reverse Current @T _A = 2 At Rated DC Blocking Voltage @T _A = 10	I IRM		5.0 50					μА	
Reverse Recovery Time (Note 1)			150 250			250	500		nS
Typical Junction Capacitance (Note 2)			15					pF	
Typical Thermal Resistance (Note 3)			50					°C/W	
Operating and Storage Temperature Range		G	-65 to +150					°C	

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 8.0mm2 land area.

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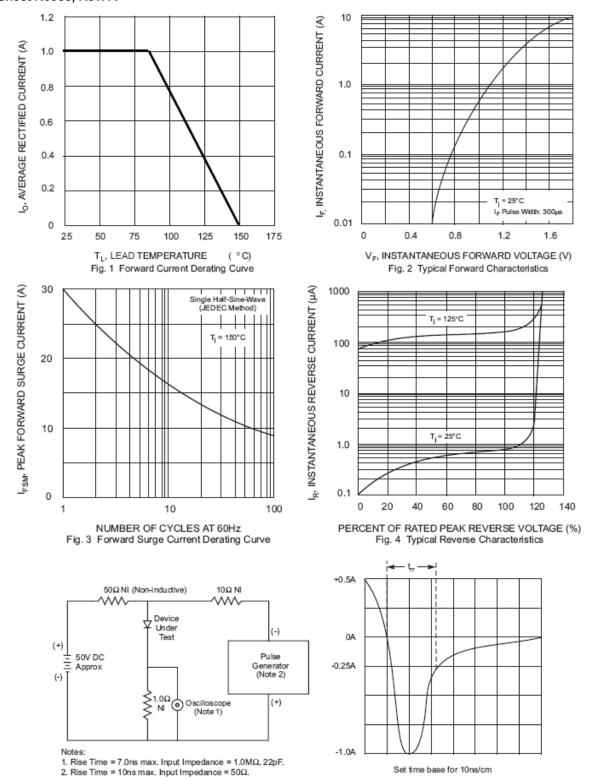


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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