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RS1A-RS1M SURFACE MOUNT SUPER FAST RECTIFIER

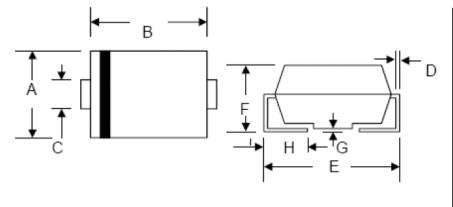
Features:

- 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.	Min.	Max.			
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 mm		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		Symbol	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L = 90°C		lo	1.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	30					А		
Forward Voltage	@I _F = 1.0A	VFM	1.30					٧		
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM	5.0 50					μА		
Reverse Recovery Time (Note 1)		trr	150 250 500			00	nS			
Typical Junction Capacitance (Note 2)		Cj	15					pF		
Typical Thermal Resistance (Note 3)		R⊕JA	50					°C/W		
Operating and Storage Temperature Range		Тј, Тѕтс	-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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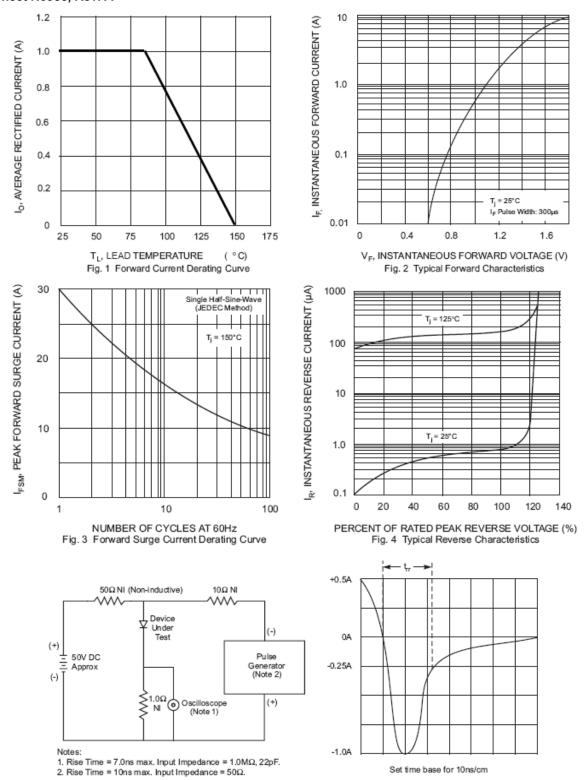


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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