

Technical Data Data Sheet N1006, Rev. B **Green Products**

RS1A-F THRU RS1M-F SURFACE MOUNT SUPER FAST RECTIFIER

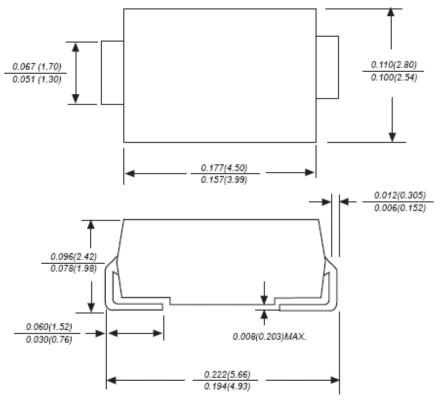
Features:

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Super fast switching for high efficiency
- 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 SMA(DO-214AC) molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Weight: 0.002 ounce, 0.07 grams

Mechanical Dimensions: In mm/ Inches



OPTION 1(XH)

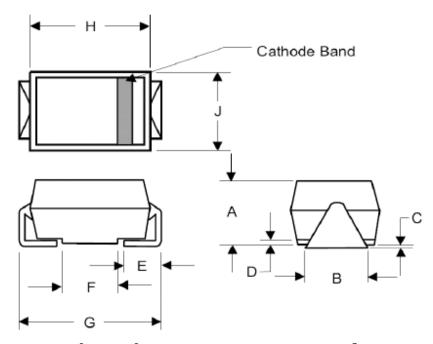
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	DIMENSIONS						
Dim.	Min.	Max.	Max.				
Α	1.98	2.95	0.078	0.116			
В	1.05	1.70	0.041	0.067			
С	0.05	0.20	0.002	0.008			
D	-	0.51	-	0.020			
Е	0.76	1.52	0.030	0.060			
F	1.65	2.45	0.065	0.096			
G	4.93	5.66	0.194	0.223			
Н	3.99	4.50	0.157	0.177			
J	2.57	2.84	0.101	0.112			
	In mm		In inch				

OPTION 2(CR) SMA

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Marking Diagram:



Where XXXXX is YYWWL

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
RS1A-F THRU RS1M-F	SMA(DO-214AC) (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

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	RS1A -F	RS1B -F	RS1D -F	RS1G -F	RS1J -F	RS1K -F	RS1M -F	UNITS
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=90°C		1.0					Amp		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		30.0					Amps		
Maximum instantaneous forward voltage at 1.0A		1.3					Volts		
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃		5.0 50.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)		15.0					рF		
Typical thermal resistance (NOTE 3)		50.0					°C/W		
Operating junction and storage temperature range		-65 to +150						°C	

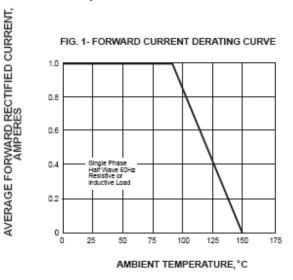
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

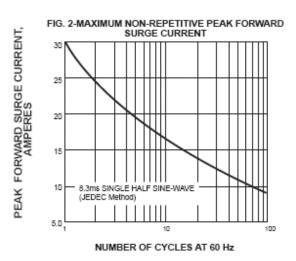
^{3.}P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

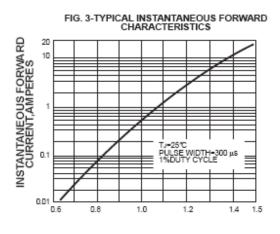
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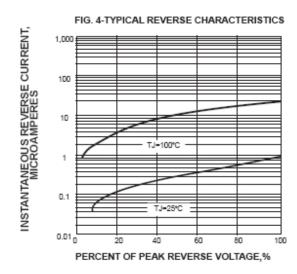


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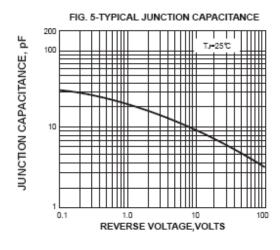


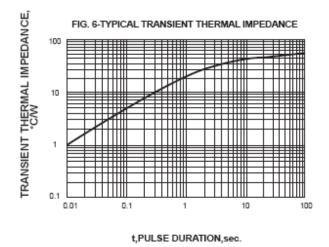












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