

Features

- Average Forward Current: I_{F(AV)}=1A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
RS1AF-RS1MF	SMAF	RS1xF	10000			









Maxmim Ratings (Ta=25 unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current						•		
.375"(9.5mm) Lead Length at Ta=55°C		1.0						
Peak Forward Surge Current, 8.3 ms single half single	e-wave							
superimposed on rated load (JEDEC method)		30						
Maximum Instantaneous Forward Voltage at 1.0A		1.3						
Maximum DC Reverse Current Ta=25	°C	5.0						
at Rated DC Blocking Voltage Ta=10	0°C	100						
Maximum Reverse Recovery Time (Note 1)		15	50		250	50	00	nS
Typical Junction Capacitance (Note 2)		15						
Operating and Storage Temperature Range TJ, Tsto	6	-65—+150						

NOTES:

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Typical Characteristics

FIG.1-TYPICAL FORWARD

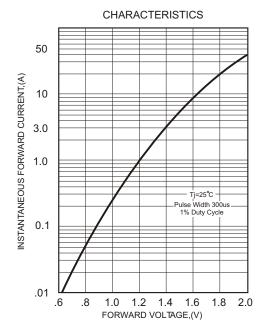
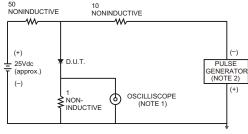


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE
RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

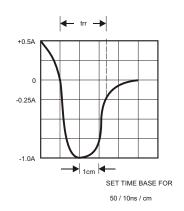


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

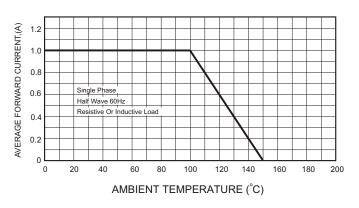


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

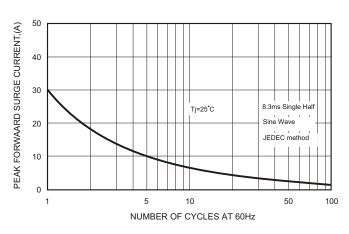
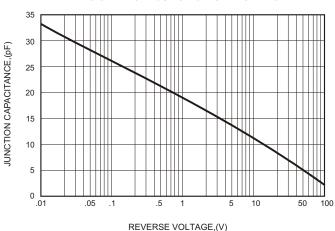
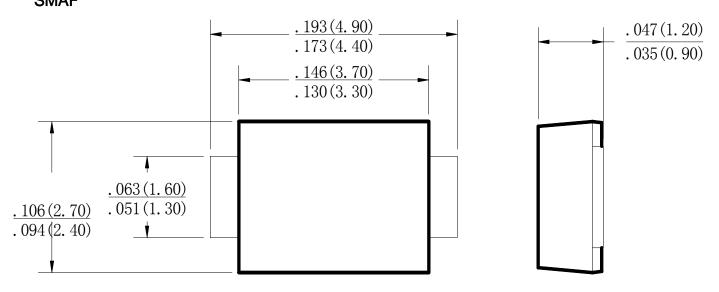


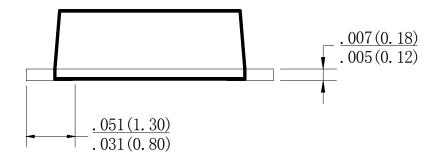
FIG.5-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions SMAF





Dimensions in inches and (millimeters)



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