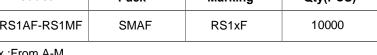


## **Features**

- 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		





x:From A-M

## 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							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		30							
Maximum Instantaneous Forward Voltage at 1.0A		1.3							V
Maximum DC Reverse Current Ta	a=25°C	5.0						μΑ	
at Rated DC Blocking Voltage	a=100°C	100						μА	
Maximum Reverse Recovery Time (Note 1)			15	50		250	50	00	nS
Typical Junction Capacitance (Note 2)		15							рF
Operating and Storage Temperature Range TJ, TsTG			-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

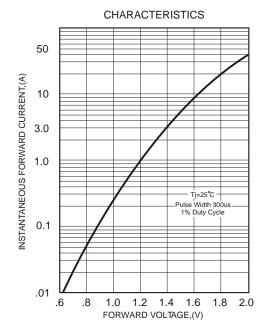
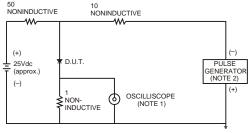


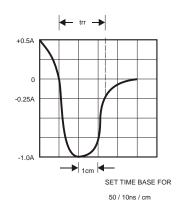
FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

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

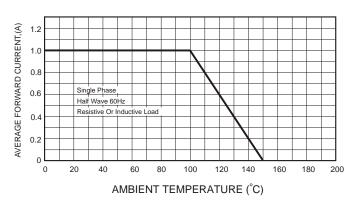
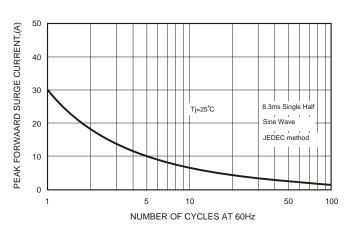
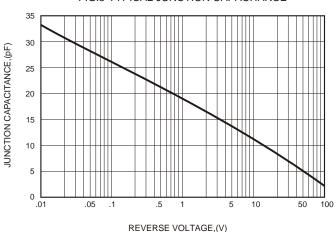


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

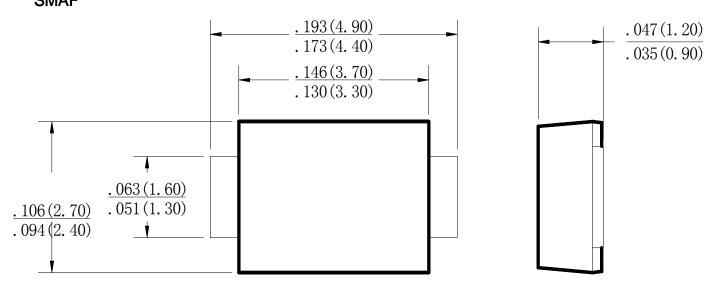


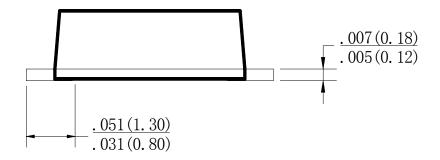
#### FIG.5-TYPICAL JUNCTION CAPACITANCE





# **Package Outline Dimensions SMAF**





Dimensions in inches and (millimeters)



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