

## **FEATURES**

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Fast switching speed

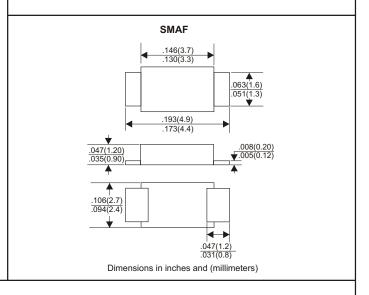
### **MECHANICAL DATA**

\* Case: Molded plastic

- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

# VOLTAGE RANGE 50 to 1000 Volts CURRENT

1.0 Ampere



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. 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 sine-wave								
superimposed on rated load (JEDEC method)		30						Α
Maximum Instantaneous Forward Voltage at 1.0A		1.3					V	
Maximum DC Reverse Current Ta=25°C		5.0						
at Rated DC Blocking Voltage Ta=100°C		100						
Maximum Reverse Recovery Time (Note 1)		150 250 500				00	nS	
Typical Junction Capacitance (Note 2)		15						pF
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.

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#### RATING AND CHARACTERISTIC CURVES (RS1AFTHRU RS1MF)

FIG.1-TYPICAL FORWARD

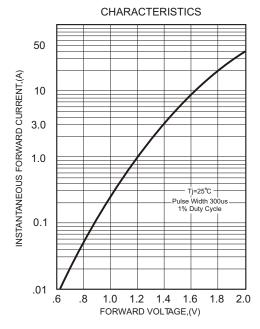
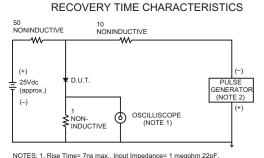
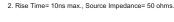
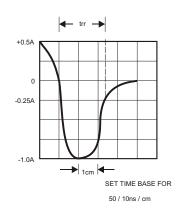


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE



NOTES: 1. Rise Time= /ns max., Input Impedance= 1 megohm.22p





#### FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

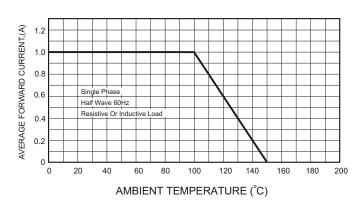


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

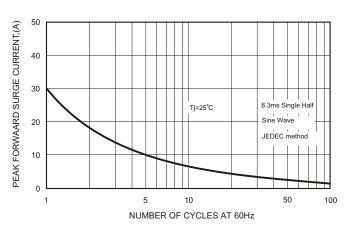


FIG.5-TYPICAL JUNCTION CAPACITANCE

