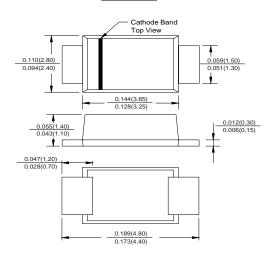


# **RS1AF THRU RS1MF**

## SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -1.0 Ampere

#### SMAF



Dimensions in inches and (millimeters)

## **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: 260°C/10 seconds at terminals
- Glass passivated chip junction

## **MECHANICAL DATA**

**Case**: JEDEC SMAF molded plastic body over passivated chip **Terminals**: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0018 ounce, 0.064 grams

### 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%.

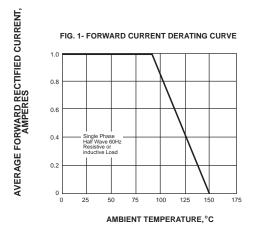
MDD Catalog Number	SYMBOLS	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=90℃	l(AV)	1.0							Amp
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	30.0							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current Ta=25°C	5.0							μА	
at rated DC blocking voltage Ta=100℃	I <sub>R</sub> 50.0								
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	0	ns
Typical junction capacitance (NOTE 2)	Cı	15.0							pF
Typical thermal resistance (NOTE 3)	Reja	50.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

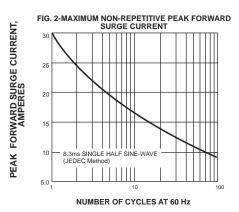
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

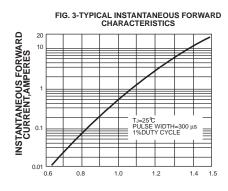
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

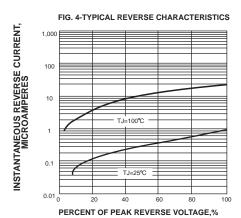
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## RATINGS AND CHARACTERISTIC CURVES RS1AF THRU RS1MF

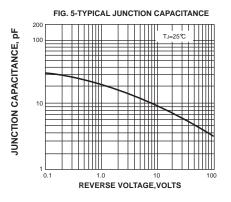


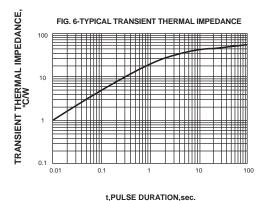












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