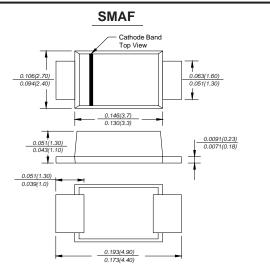


# **RS1AF THRU RS1MF**

#### SURFACE MOUNT FAST RECOVERY RECTIFIER

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



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%.

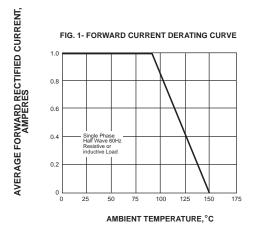
MDD Catalog Number	SYMBOLS	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	UNITS
Marking code		MDD RS1AF	MDD RS1BF	MDD RS1DF	MDD RS1GF	MDD RS1JF	MDD RS1KF	MDD RS1MF	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum 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 rated load (JEDEC Method)	lfsm	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current T <sub>A</sub> =25℃ at rated DC blocking voltage T <sub>A</sub> =100℃	lR	5.0 50.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr	150 250				500	)	ns	
Typical junction capacitance (NOTE 2)	C¹	15.0						pF	
Typical thermal resistance (NOTE 3)	RθJA	50.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150							°C

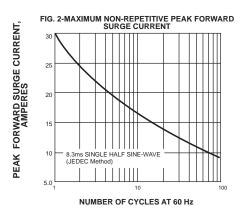
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

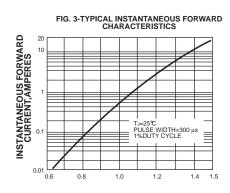
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



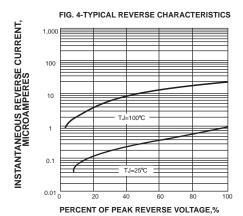
## RATINGS AND CHARACTERISTIC CURVES RS1AF THRU RS1MF

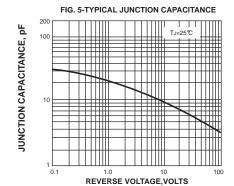


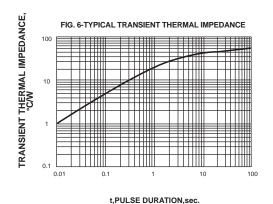




INSTANTANEOUS FORWARD VOLTAGE, VOLTS







The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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