

RS1AF THRU RS1MA

SURFACE MOUNT FAST RECOVERY RECTIFIER

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

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: SMAF molded plastic body over passivated chip **Terminals:** Solder plated, solderable per MIL-STD-750, Mathed 2026

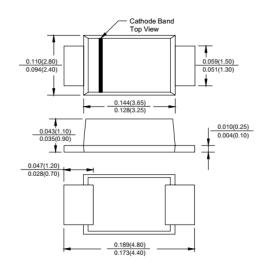
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0011 ounce, 0.029 grams

SMAF



Dimensions in inches and (millimeters)

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%.

	SYMBOLS	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=100°C	l(AV)	1.0							А
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	30.0							Α
rated load									
Maximum instantaneous forward voltage at 1.0A	VF	1.3							V
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	5.0 100.0							μА
Maximum reverse recovery time (NOTE 1)	trr	150				250	50	0	ns
Typical junction capacitance (NOTE 2)	Cı	15.0							pF
Typical thermal resistance (NOTE 3)	RθJA	88.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

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

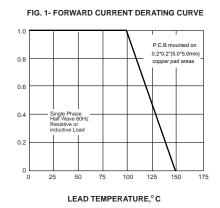
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

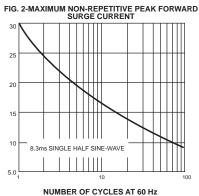


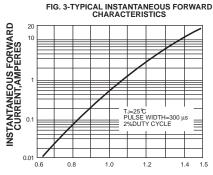
RATINGS AND CHARACTERISTIC CURVES RS1AF THRU RS1MF

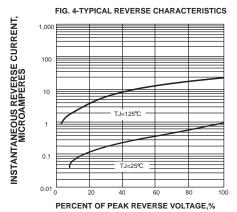
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



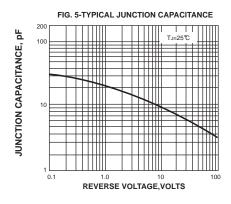


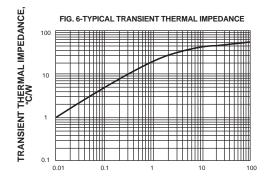






INSTANTANEOUS FORWARD VOLTAGE,





t,PULSE DURATION,sec.

单击下面可查看定价,库存,交付和生命周期等信息

>>ZG(中鑫半导体)