

RS2AF~RS2MF 2.0Amp Surface Mount Fast Recovery Rectifiers

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

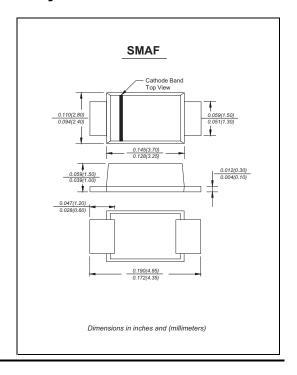
Mechanical Data

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: 0.0014 ounce, 0.038grams



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	RS2AF	RS2BF	RS2DF	RS2GF	RS2JF	RS2KF	RS2MF	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°C	l(AV)				2.0				Amps
Peak forward surge current	IFSM 50.0						A		
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM 50.0						Amps		
Maximum instantaneous forward voltage at 2.0A	VF	1.3							Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	5.0 50.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Сл		50.0						pF
Typical thermal resistance (NOTE 3)	Reja		20.0						
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 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 RS2AF THRU RS2MF

