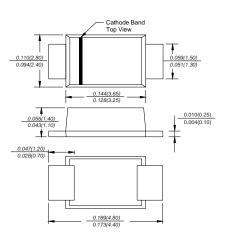
S1AAF THRU S1MAF

SURFACE MOUNT GENERAL 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
- ◆ 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,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0014 ounce, 0.038 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%.

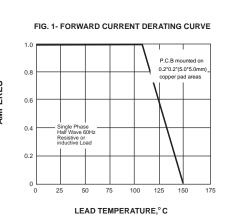
	SYMBOLS	S1AAF	S1BAF	S1DAF	S1GAF	S1JAF	S1KAF	S1MAF	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I(AV)	1.0							А
at TL =110°C	I(AV)								
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		1.1						
Maximum DC reverse current Ta=25°C	١.,	5.0 50.0							μΑ
at rated DC blocking voltage T _A =100℃	l _R								
Typical junction capacitance (NOTE 1)	Сл		15.0						pF
Typical thermal resistance (NOTE 2)	Rθja		88.0						°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150						°C	

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

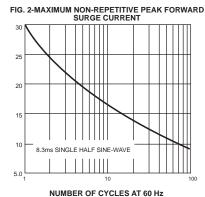


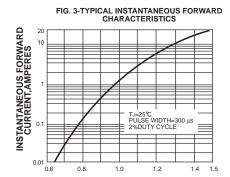
RATINGS AND CHARACTERISTIC CURVES S1AAF THRU S1MAF





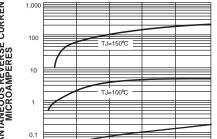






INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

0.01

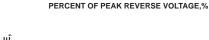


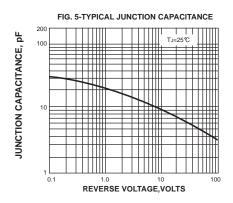
TJ=25℃

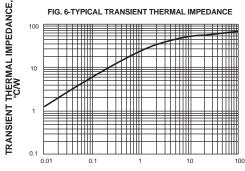
100

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

INSTANTANEOUS FORWARD VOLTAGE.







t, PULSE DURATION, sec.

