

# S1AF THRU S1MF

### **Features**

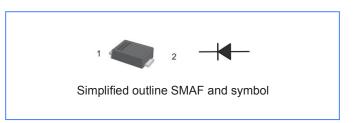
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

### **Mechanical Data**

Case: SMAF

■ Terminals: Solderable per MIL-STD-750, Method 2026

APPROX. Weight: 27mg / 0.00095oz



Pinning							
PIN	DESCRIPTION						
1	Cathode						
2	Anode						

## Absolute Maximum Ratings And Characteristics

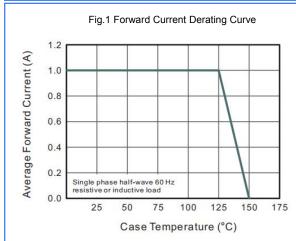
Ratings at 25°C ambient temperature unless otherwise specified.

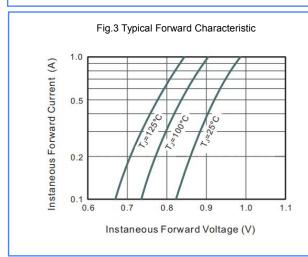
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

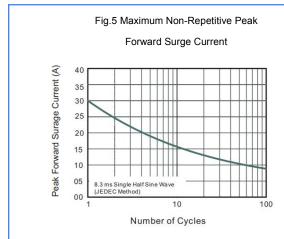
Parameter	Symbols	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified  Current at Tc = 125 °C	I <sub>F(AV)</sub>				1				А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	30							A
Maximum Forward Voltage at 1 A	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I <sub>R</sub>	5 50							μА
Typical Junction Capacitance (1)	Cj	15						pF	
Typical Thermal Resistance (2)	RØJA RØJC	80 27							°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>				-55 ~ +150				C

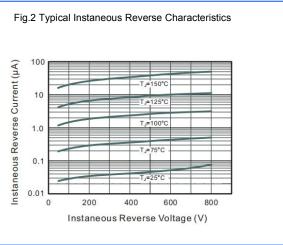
- (1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- (2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

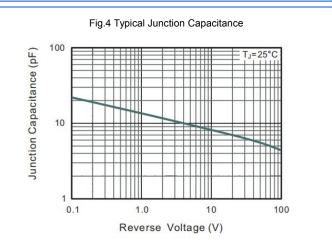








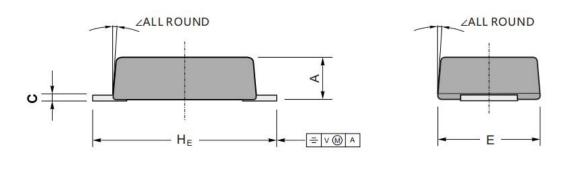


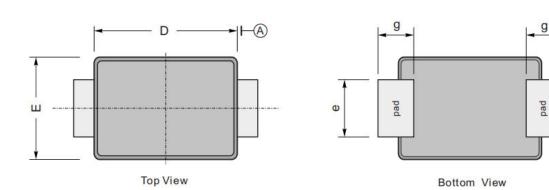


# Package Outline

Plastic surface mounted package; 2 leads

SMAF





UNIT		Α	С	D	Е	е	g	HE	
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	7.0
mil	max	47	7.9	146	106	63	47	193	'
	min	35	4.7	130	94	51	31	173	

## The recommended mounting pad size

