

# S1AF THRU S1MF

Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A

### FEATURES

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

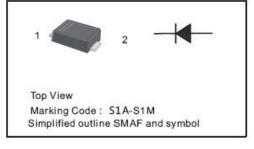
## MECHANICAL DATA

- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 27mg 0.00086oz

#### **Maximum Ratings and Electrical characteristics**

### PINNING

PIN	DESCRIPTION Cathode				
1					
2	Anode				



Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	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 Ta = 65 °C	I <sub>f(av)</sub>	1						А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	25						A	
Maximum Instantaneous Forward Voltage at 1 A	VF	1.1						v	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	l <sub>R</sub>	5 50						μA	
Typical Junction Capacitance 1)	Ci	4						pF	
Typical Thermal Resistance <sup>2)</sup>	R <sub>eja</sub>	180						°C/W	
Operating and Storage Temperature Range	Tj, T <sub>stg</sub>	-55~+150						°C	

1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

2) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

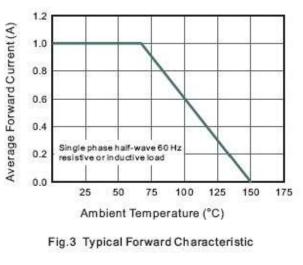
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CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE

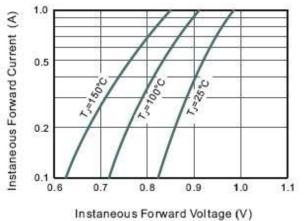


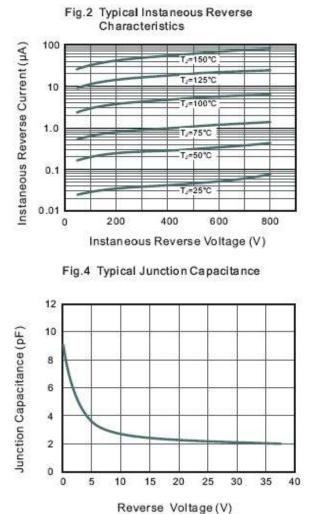


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(interest voltage(v)

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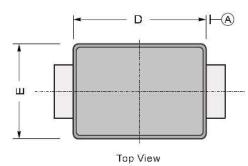


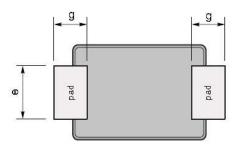
# **S1AF THRU S1MF**

## **PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SMAF ∠ALL ROUND ∠ALL ROUND 4 O - = ∨ M A Е- ${\sf H}_{\sf E}$ 

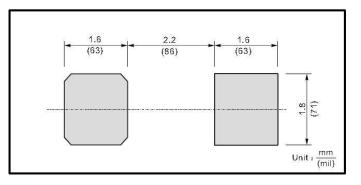




Bottom View

UNIT		А	С	D	E	е	g	Η <sub>E</sub>	Z
mm	max	1.1	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°
mil	max	43	7.9	146	106	63	47	193	6
	min	35	4.7	130	94	51	31	173	

## The recommended mounting pad size



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