

S3AF THRU S3MF

DESCRIPTION

Cathode

Anode

Marking Code: S3A-S3M

Simplified outline SMAF and symbol

PINNING PIN

1

2

Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 50 to 1000 V Forward Current - 3 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

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Ratings at 25 °C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load										
c	urrent derate by 20 %.									
	Parameter	Symbols	S3AF	S3BF	S3DF	S3GF	S3JF	S3KF	S3MF	Units
	Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
	Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
	Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
	Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	3						А	
	Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100							А

Maximum DC Reverse Current Ta = 25 °C I_R μΑ at Rated DC Blocking Voltage Ta =125 °C 250 Typical Junction Capacitance 1) Ci рF 53 13 Typical Thermal Resistance 2) $R_{\theta JA}$ °C/W Operating and Storage Temperature Range T_j, T_{stg} -55 ~ +150

Maximum Instantaneous Forward Voltage at 3 A

1.2

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^{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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Fig.1 Forward Current Derating Curve

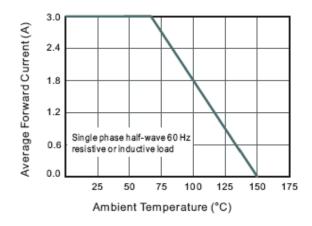


Fig.2 Typical Instaneous Reverse Characteristics

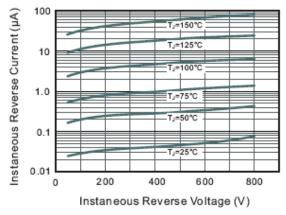


Fig.3 Typical Forward Characteristic

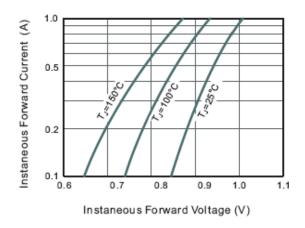
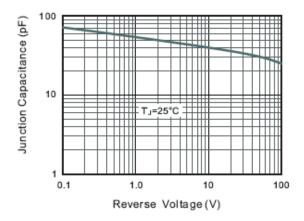


Fig.4 Typical Junction Capacitance



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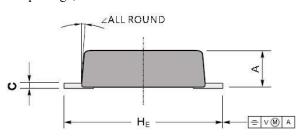


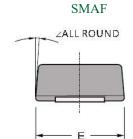


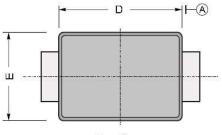
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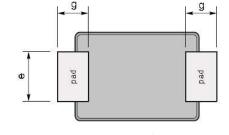
CKAGE OUTLINE

Plastic surface mounted package; 2 leads







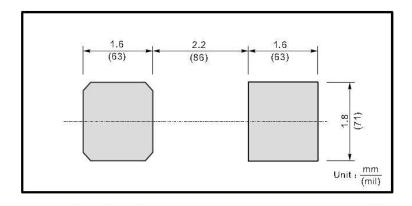


Top View

Bottom View

UNIT		Α	С	D	Е	е	g	HE	2	
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9		
mm	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	(
11111	min	35	4.7	130	94	51	31	173		

The recommended mounting pad size



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