DESCRIPTION

The S1AF~S1MF are available in SMAF package

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Available in SMAF package

ORDERING INFORMATION

Package Type	Part Number					
	S1AF					
SMAF	S1BF					
	S1DF					
	S1GF S1JF S1KF					
						S1MF
					Note	SPQ: 3,000pcs/Reel
AiT provides all RoHS Compliant Products						

MECHANICAL DATA

Case: SMAF

Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 27mg / 0.00086oz

PIN DESCRIPTION

Cathode Andoe

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ABSOLUTE 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 %.

Param	eter	Symbol	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	Unit
Maximum Repetitive Peak		V _{RRM}	50	100	200	400	600	800	1000	V
Reverse Voltage										
Maximum RMS Vo	Maximum RMS Voltage			70	140	280	420	560	700	V
Maximum DC Bloo	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward										Α
Rectified Current at T _A =65°C		I _{F(AV)}	1							
Peak Forward Surge Current										
8.3ms Single Half Sine Wave		I _{FSM}								Α
Superimposed on Rated Load			25							
(JEDEC Method)										
Max Instantaneous Forward Voltage at 1A		VF	1.1							V
Reverse Current			5 50							μA
at Rated DC										
Blocking Voltage										
Typical Junction			4							, C
Capacitance ^{NOTE1}		Сл								pF
Typical Thermal Resistance ^{NOTE2}		R _{θJA}	180						°C/W	
Operating and Storage		т. т	EE . 150						°C	
Temperature Range		T _J , T _{STG}	-55 ~150							

NOTE1: Measured at 1MHz and applied reverse voltage of 4 V D.C

NOTE2: Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

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TYPICAL CHARACTERISTICS

Figure. 1 Forward Current Derating Curve

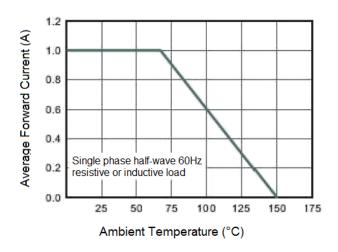


Figure. 2 Typical Instantaneous Reverse Characteristics

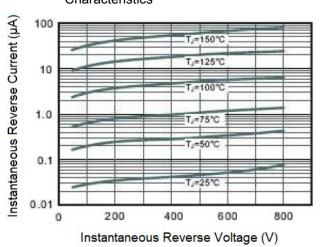


Figure. 3 Typical Forward Characteristic

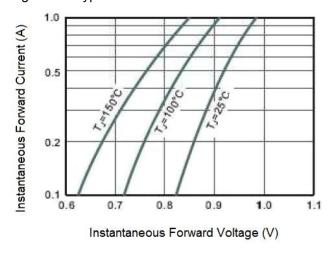
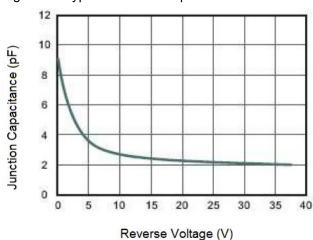


Figure. 4 Typical Junction Capacitance

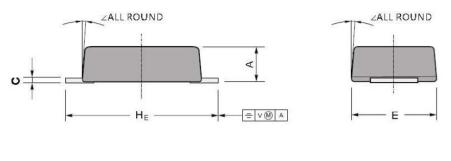


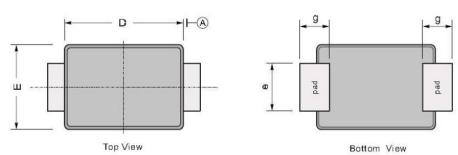
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PACKAGE INFORMATION

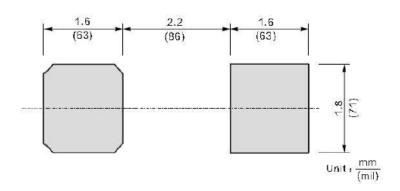
Dimension in SMAF (Unit: mm)

Plastic surface mounted package; 2 leads





The recommended mounting pad size



UN	II.	Α	O	D	Е	Φ	g H _E		∠
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	,
	Min	35	4.7	130	94	51	31	173	

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