

SS52F THRU SS520F

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200V Forward Current - 5.0A FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

• Case: SMAF

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

• Approx. Weight: 27mg 0.00086oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 $^{\circ}$ C

Parameter	Symbols	SS52F	SS54F	SS56F	SS58F	SS510F	SS512F	SS515F	SS520F	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	٧
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	>
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	٧
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0							Α	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							А	
Max Instantaneous Forward Voltage at 5 A	V _F	0.45 0.55 0.70 0.85					V			
Maximum DC Reverse Current T _a = 25°C I.0 at Rated DC Reverse Voltage T _a =100°C I _R 50							mA			
Typical Junction Capacitance 1)	Cj	800		500						pF
Typical Thermal Resistance 2)	Reja	55						°C/W		
Operating Junction Temperature Range T_j $-55 \sim +125$								°C		
Storage Temperature Range T_{stg} -55 ~ +150								°C		

- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

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Fig.1 Forward Current Derating Curve

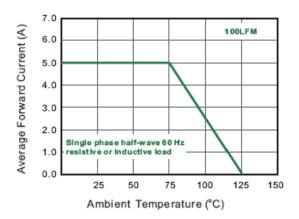


Fig.2 Typical Reverse Characteristics

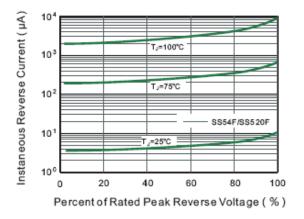


Fig.3 Typical Forward Characteristic

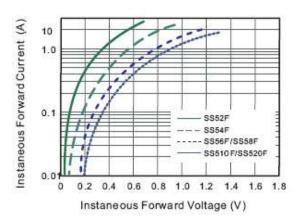


Fig.4 Typical Junction Capacitance

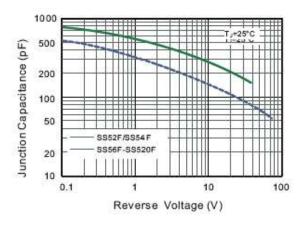


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

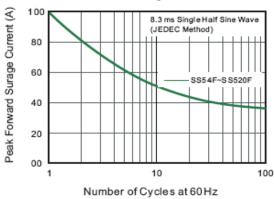
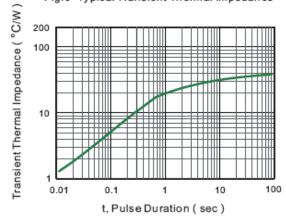


Fig.6- Typical Transient Thermal Impedance



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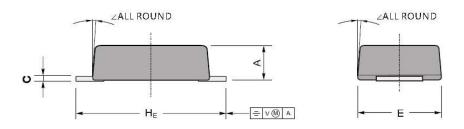


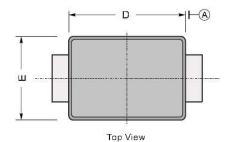
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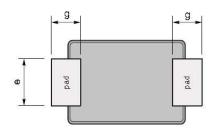
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



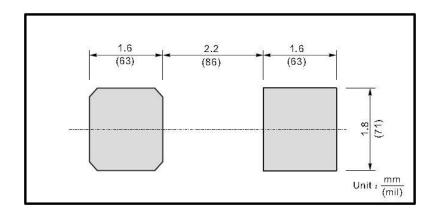




Bottom View

UNIT Α C D Ε H_E е Ż g 0.20 2.7 max 1.1 3.7 1.6 1.2 4.9 mmmin 0.12 0.9 3.3 2.4 1.3 8.0 4.4 7° max 43 7.9 146 106 63 47 193 mil min 35 4.7 130 94 51 31 173

The recommended mounting pad size



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单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)