

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

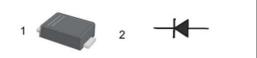
• Case: SMAF

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

• Approx. Weight: 27mg 0.00086oz

PINNING

PIN	DESCRIPTION				
1	Cathode				
2	Anode				



Top View

Marking Code: SS52 — SS520 Simplified outline SMAF and symbol

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	V
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			٧	
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =100°C	I _R	1.0 50					mA			
Typical Junction Capacitance 1)	Cj	800 500					pF			
Typical Thermal Resistance 2)	Reja	55						°C/W		
Operating Junction Temperature Range	Tj	-55~+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

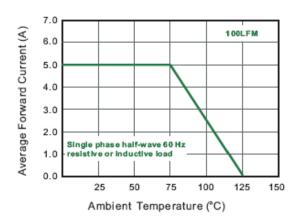


Fig.2 Typical Reverse Characteristics

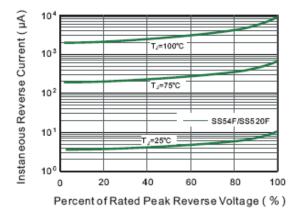


Fig.3 Typical Forward Characteristic

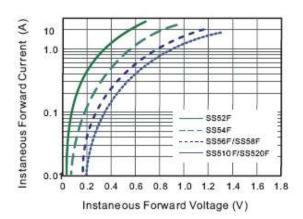


Fig.4 Typical Junction Capacitance

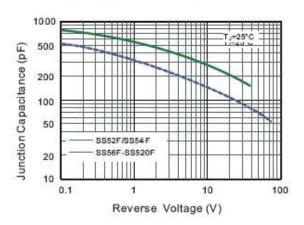


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

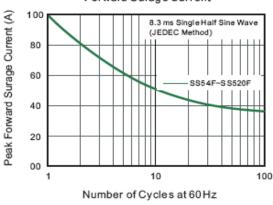
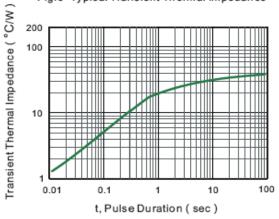


Fig.6- Typical Transient Thermal Impedance



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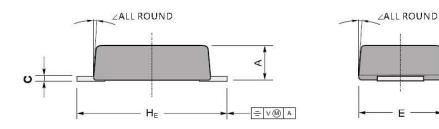


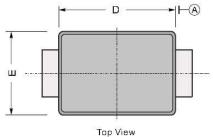
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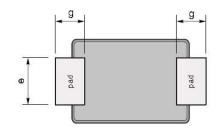
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



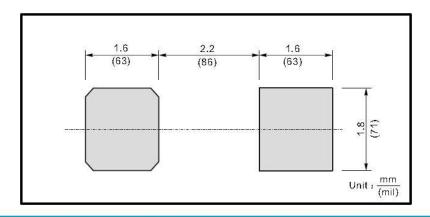




Bottom View

UNIT		Α	O	D	Е	Ф	9	H⊨	_	
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	<u>C</u>	
11111	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

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