

# SS52F THRU SS520F

### Surface Mount Schottky Barrier Rectifier

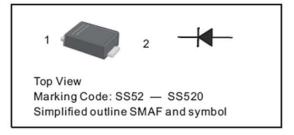
Reverse Voltage - 20 to 200V Forward Current - 5.0A FEATURES

- 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

#### Absolute Maximum Ratings and Electrical characteristics

#### PINNING

PIN	DESCRIPTION					
1	Cathode					
2	Anode					



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

Parameter	Symbols	SS52F	SS54F	SS56F	SS58F	SS510F	SS512F	SS515F	SS520F	Units
Maximum Repetitive Peak Reverse Voltage	Vrrm	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V <sub>rms</sub>	14	28	42	56	70	84	105	140	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	5.0							А	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150							А	
Max Instantaneous Forward Voltage at 5 A	VF	0.45 0.55 0.70 0.85					v			
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Reverse Voltage T <sub>a</sub> =100°C	I <sub>R</sub>	1.0 50						mA		
Typical Junction Capacitance 1)	Cj	800			500					pF
Typical Thermal Resistance <sup>2)</sup>	Reja	55						°C/W		
Operating Junction Temperature Range	Тј	-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

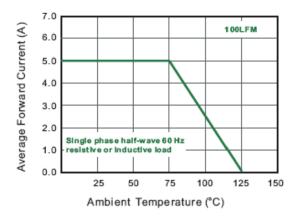


Fig.3 Typical Forward Characteristic

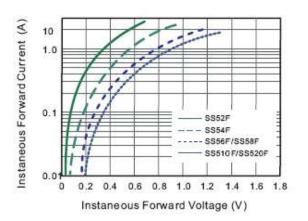


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

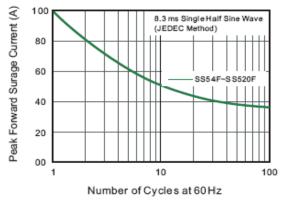


Fig.2 Typical Reverse Characteristics

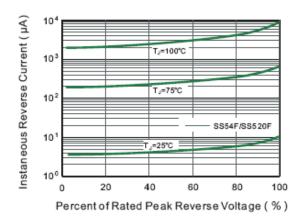


Fig.4 Typical Junction Capacitance

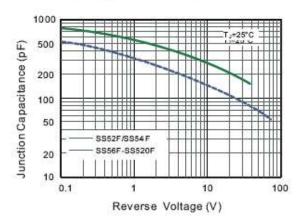
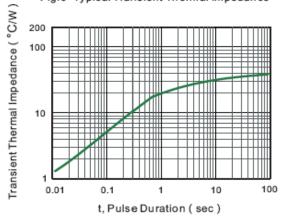


Fig.6- Typical Transient Thermal Impedance



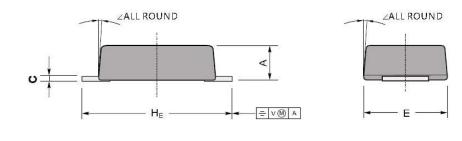


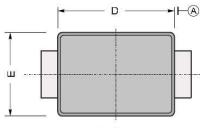
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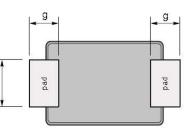
#### PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF







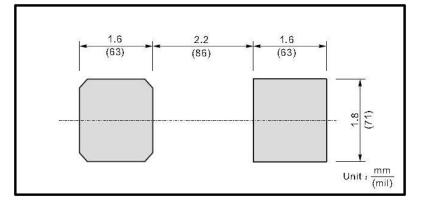
Top View

Bottom View

UNIT		А	С	D	Е	e	g	HE	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		

Φ

### The recommended mounting pad size



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