

SS52BF THRU SS520BF

Surface Mount Schottky Barrier Rectifier 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: SMBF

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

• Approx. Weight: 57mg / 0.002oz

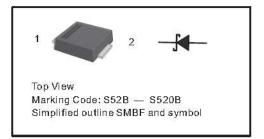
Absolute Maximum Ratings and Electrical characteristics

Reverse Voltage - 20 to 200V

PINNING

Forward Current - 5.0A

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	SS52BF	SS54BF	SS56BF	SSSBBF	SS510BF	SS512BF	SS515BF	SS520BF	Units
Maximum Repetitive Peak Reverse Voltage V		20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V∞	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0					А			
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 at Rated DC Reverse Voltage T _a =100°C	I _R	1.0 50					mA			
Typical Junction Capacitance 1>	C _j	800		500						рF
Typical Thermal Resistance 2)	R _{g,JA}	40					°C/W			
Operating Junction Temperature Range	Тј	-55~+125					°C			
Storage Temperature Range	T _{sig}	-55 ~ +150					°C			

1) Measured at 1MHz and applied reverse voltage of 4 V D.C. 2) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

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Fig.1 Forward Current Derating Curve

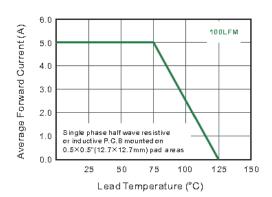


Fig.2 Typical Reverse Characteristics

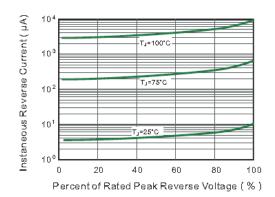


Fig.3 Typical Forward Characteristic

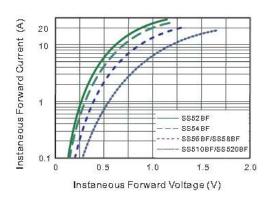


Fig.4 Typical Junction Capacitance

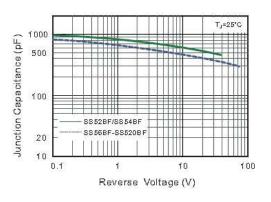


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

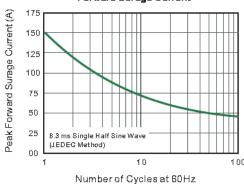
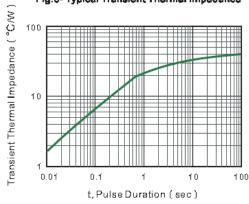


Fig.6-Typical Transient Thermal Impedance



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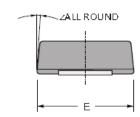
SS52BF THRU SS520BF

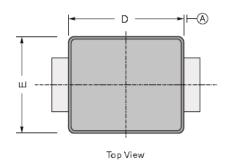
PACKAGE OUTLINE

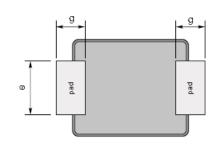
Plastic surface mounted package; 2 leads

O HE = V® A





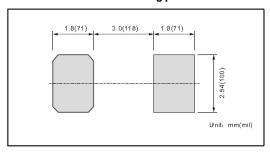




Bottom View

UNIT		Α	С	D	Е	Hε	e	g	∠
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	
mm	min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	0.0
mil	max	51	10	173	146	216	86	40	9°
	min	43	7	165	138	200	75	40	

The recommended mounting pad size



Marking

Type number	Marking code			
SS52BF	S52B			
SS54BF	S54B			
SS56BF	S56B			
SS58BF	S58B			
SS510BF	S510B			
SS512BF	S512B			
SS515BF	S515B			
SS520BF	S520B			

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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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