

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

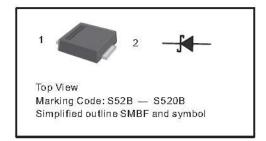
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Reverse Voltage - 20 to 200V

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		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∞	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						mΑ		
Typical Junction Capacitance 1)	C _j	800			500					рF
Typical Thermal Resistance 2)	R _{e.IA}	40					°C/W			
Operating Junction Temperature Range	Tj	-55~+125					°C			
Storage Temperature Range	T _{s1g}	-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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SS52BF THRU SS520BF

Fig.1 Forward Current Denating Curve

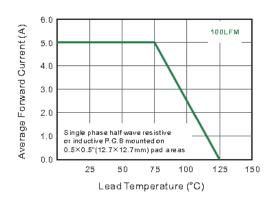


Fig.2 Typical Reverse Characteristics

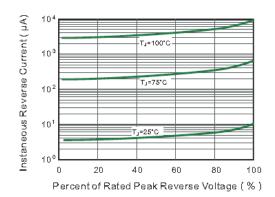


Fig.3 Typical Forward Characteristic

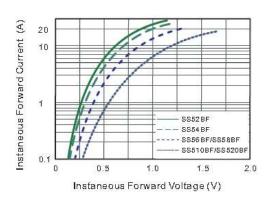


Fig.4 Typical Junction Capacitance

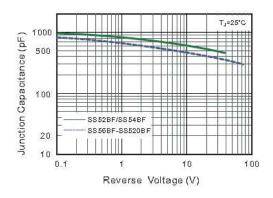


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

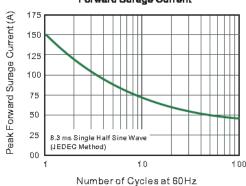
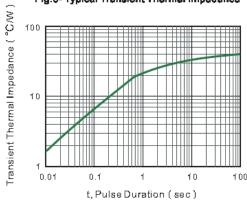


Fig.6-Typical Transient Thermal Impedance



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REV.07



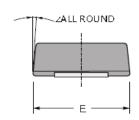
SS52BF THRU SS520BF

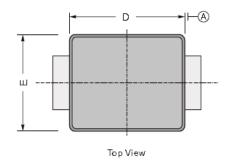
PACKAGE OUTLINE

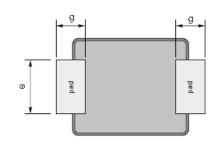
Plastic surface mounted package; 2 leads

O HE = V® A





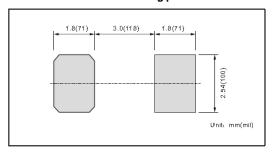




DOLLOIN	ALCAN	

UNIT		Α	С	D	E	H€	e	g	∠
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	- 9°
'''''	min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	
mil	max	51	10	173	146	216	86	40	
	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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