

# SS22BF THRU SS220BF

**PINNING** 

PIN

1

Reverse Voltage - 20 to 200V

Forward Current - 2.0A

### **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

Simplified outline SMBF and symbol

DESCRIPTION

Cathode

Anode

# **Absolute Maximum Ratings and Electrical characteristics**

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	8822BF	8824BF	8828BF	8528BF	88210BF	88212BF	86215BF	88220BF	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>rrm</sub>	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	28	42	56	70	84	105	140	٧
Maximum DC Blocking Voltage	Voc	20	40	60	80	100	120	150	200	٧
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2.0						А		
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	55 45					А			
Max Instantaneous Forward Voltage at 2 A	V <sub>F</sub>	0.55		0.	70 0.85		0.95		٧	
Maximum DC Reverse Current Ta = 25°C at Rated DC Reverse Voltage Ta = 100°C	I <sub>R</sub>	0.5 5			0.3 3					mA
Typical Junction Capacitance 1)	Cj	250			110					рF
Typical Thermal Resistance <sup>2)</sup>	R <sub>e.IA</sub>	65					°C/W			
Operating Junction Temperature Range	Тј	-55 ~ +125					°C			
Storage Temperature Range	T <sub>sig</sub>	-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

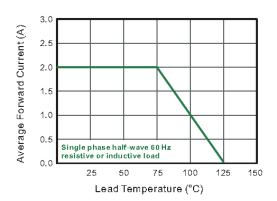


Fig.2 Typical Reverse Characteristics

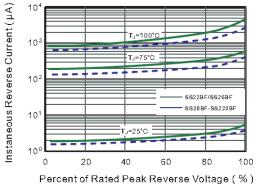


Fig.3 Typical Forward Characteristic

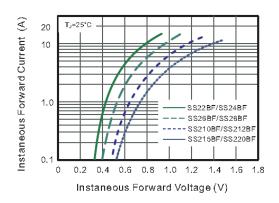


Fig.4 Typical Junction Capacitance

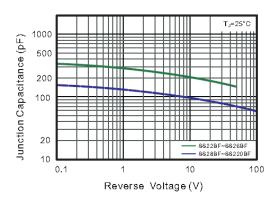


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

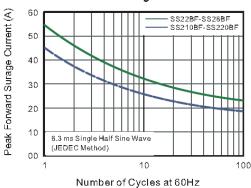
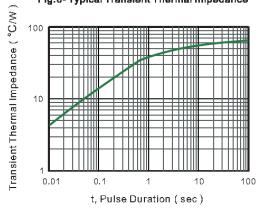


Fig.6- Typical Transient Thermal Impedance



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**REV.07** 

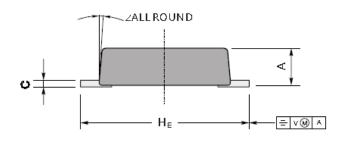


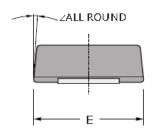
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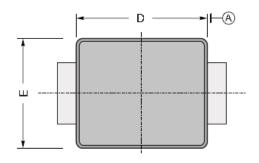
#### **PACKAGE OUTLINE**

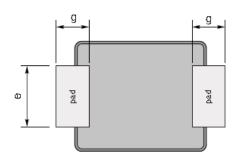
## Plastic surface mounted package; 2 leads









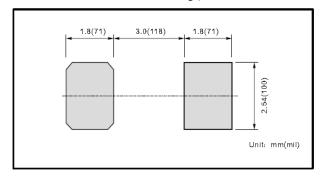


Top View

Bottom View

UNIT		Α	С	ם	Е	Н	е	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	70	

### The recommended mounting pad size



## Marking

Type number	Marking code
SS22BF	S22B
SS24BF	S24B
SS26BF	S26B
SS28BF	S28B
SS210BF	S210B
SS212BF	S212B
SS215BF	S215B
SS220BF	S220B

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