

# EVVOSEMI<sup>®</sup>

THINK CHANGE DO



ESD



TVS



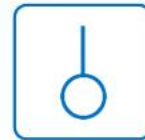
MOS



LDO



Diode



Sensor



DC-DC

## Product Specification

▶ Domestic	Part Number	SS22BF THRU SS220BF
▶ Overseas	Part Number	SS22BF THRU SS220BF
▶ Equivalent	Part Number	SS22BF THRU SS220BF

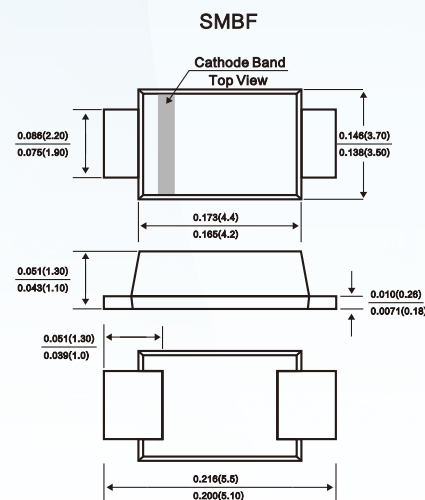
EV is the abbreviation of name EVVO

**20V-200V 2A****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



Dimensions in inches and (millimeters)

**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 %

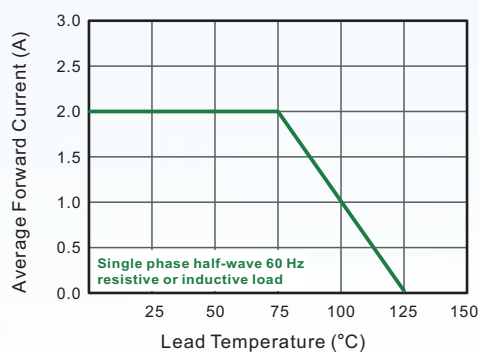
Parameter	Symbols	SS22BF	SS24BF	SS26BF	SS28BF	SS210BF	SS212BF	SS215BF	SS220BF	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2.0								A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	55				45				A
Max Instantaneous Forward Voltage at 2 A	V <sub>F</sub>	0.55		0.70		0.85		0.95		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>	0.5 5			0.3 3				mA	
Typical Junction Capacitance <sup>1)</sup>	C <sub>j</sub>	250			110				pF	
Typical Thermal Resistance <sup>2)</sup>	R <sub>θJA</sub>	65								°C/W
Operating Junction Temperature Range	T <sub>j</sub>	-55 ~ +125								°C
Storage Temperature Range	T <sub>stg</sub>	-55 ~ +150								°C

1) Measured at 1MHz and applied reverse voltage of 4 V D.C.

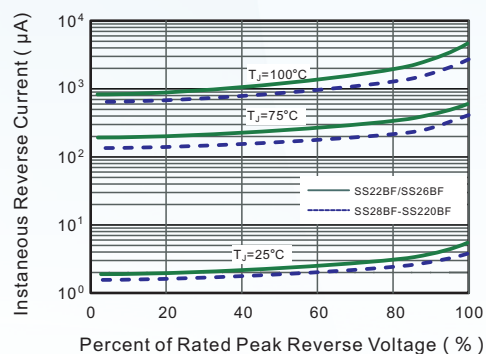
2) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

**20V-200V 2A**

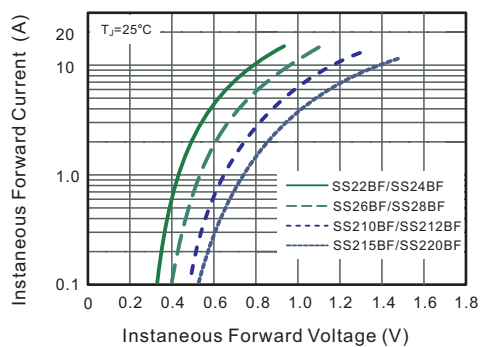
**Fig.1 Forward Current Derating Curve**



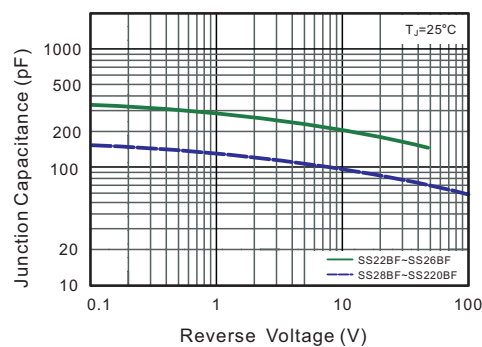
**Fig.2 Typical Reverse Characteristics**



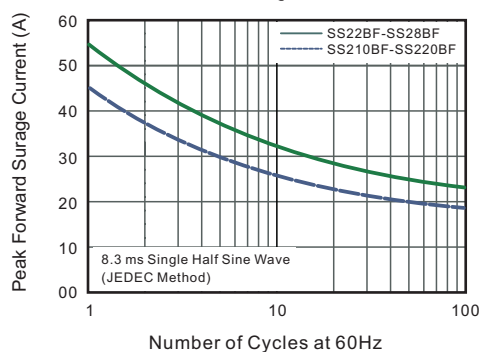
**Fig.3 Typical Forward Characteristic**



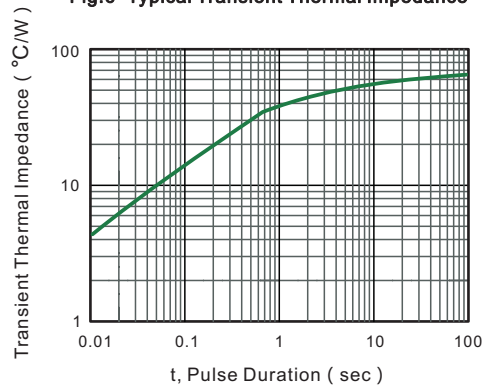
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.6- Typical Transient Thermal Impedance**



20V-200V 2A

## ORDERING INFORMATION

Order Code	Package	Baseqty	Deliverymode
SS22BF	SMBF	5000	Tape and reel
SS24BF	SMBF	5000	Tape and reel
SS26BF	SMBF	5000	Tape and reel
SS28BF	SMBF	5000	Tape and reel
SS210BF	SMBF	5000	Tape and reel
SS212BF	SMBF	5000	Tape and reel
SS215BF	SMBF	5000	Tape and reel
SS220BF	SMBF	5000	Tape and reel

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