

**Surface Mount Schottky Barrier Rectifier**
**Reverse Voltage - 20 to 200 V**
**Forward Current - 2.0A**
**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 / 0.00095oz

**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View  
Marking Code: SS22 — SS220  
Simplified outline SMAF and symbol

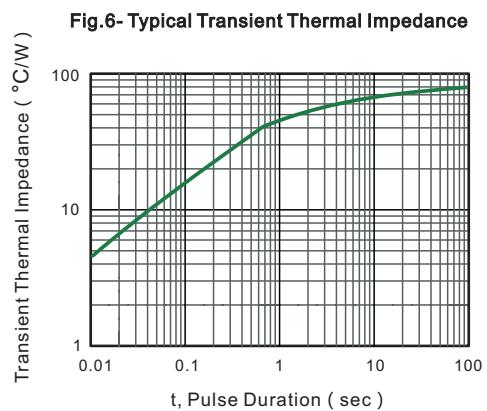
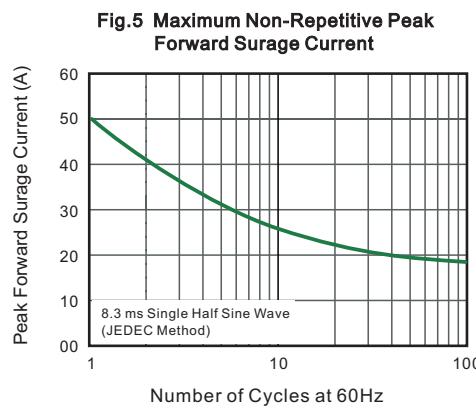
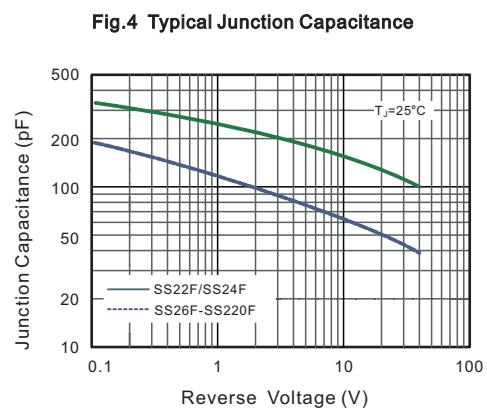
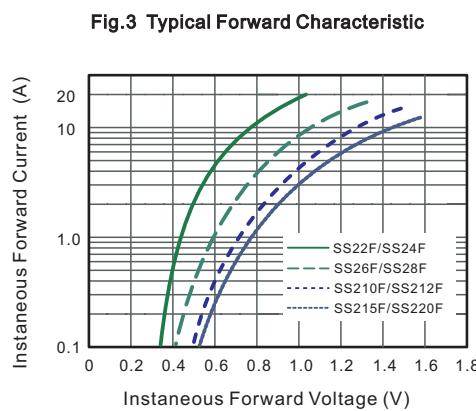
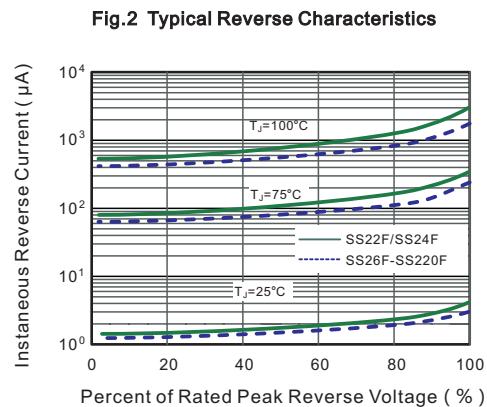
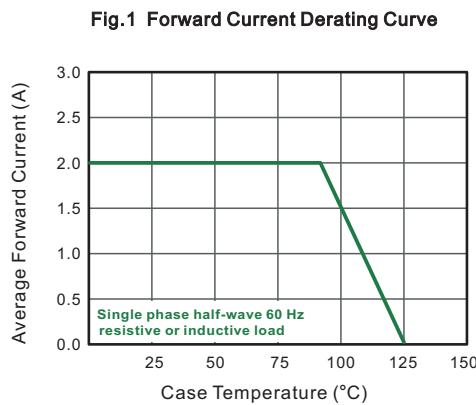
**Absolute Maximum Ratings and Electrical characteristics**

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	SS22F	SS24F	SS26F	SS28F	SS210F	SS212F	SS215F	SS220F	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>	50							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>	160		80											
Typical Thermal Resistance <sup>(2)</sup>	R <sub>θJA</sub>	80							°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 1 MHz and applied reverse voltage of 4 V D.C

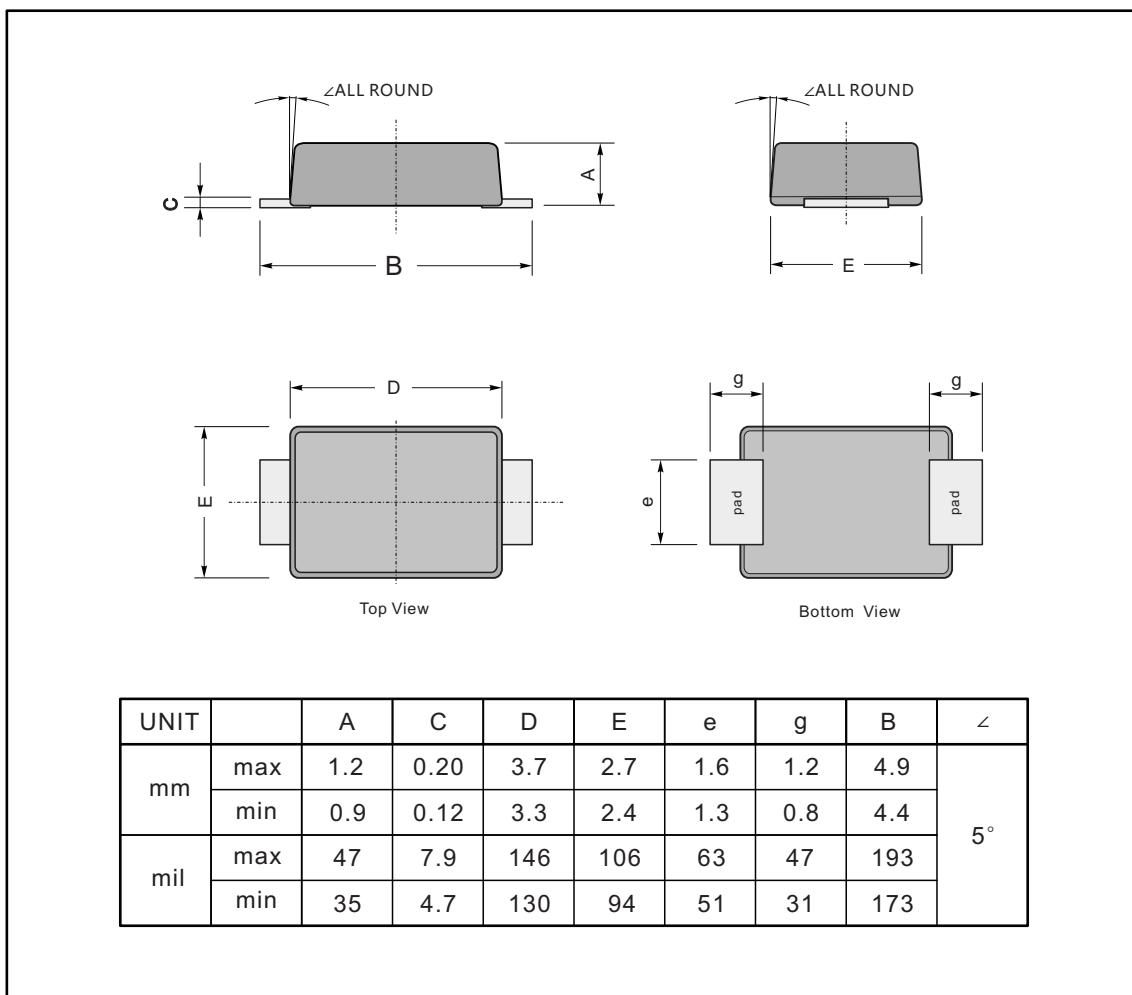
( 2 ) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



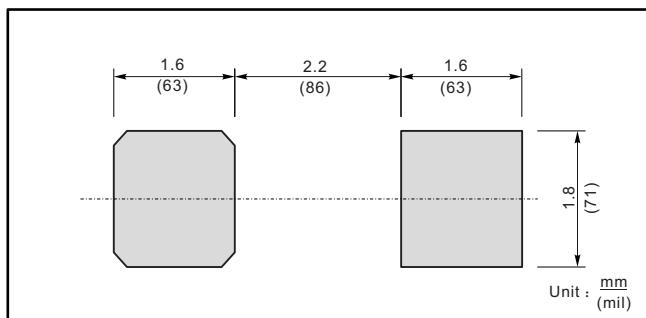
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



## The recommended mounting pad size



## Marking

Type number	Marking code
SS22F	SS22
SS24F	SS24
SS26F	SS26
SS28F	SS28
SS210F	SS210
SS212F	SS212
SS215F	SS215
SS220F	SS220