

**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

**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

 Marking Code: SS22 — SS220  
 Simplified outline SMAF and symbol

**MECHANICAL DATA**

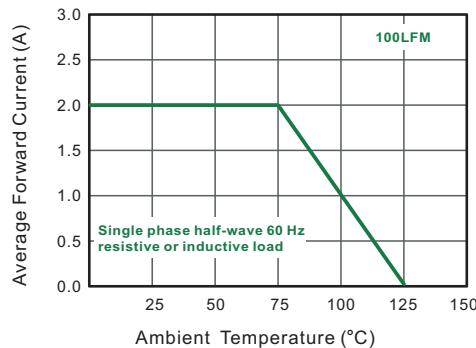
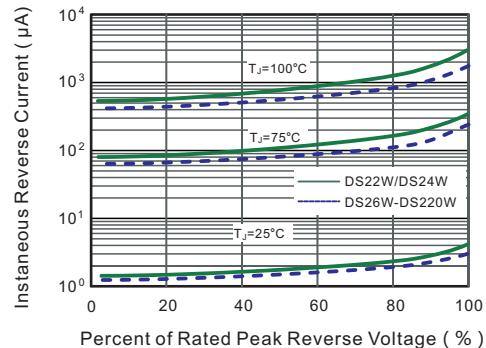
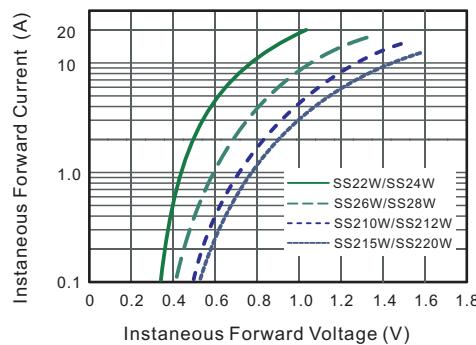
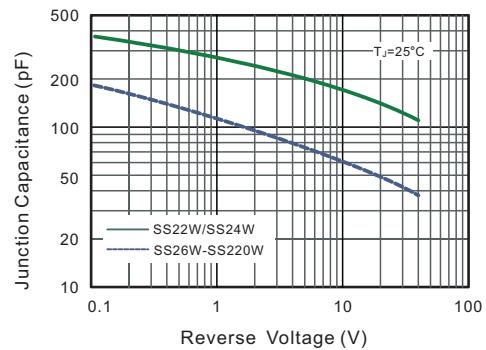
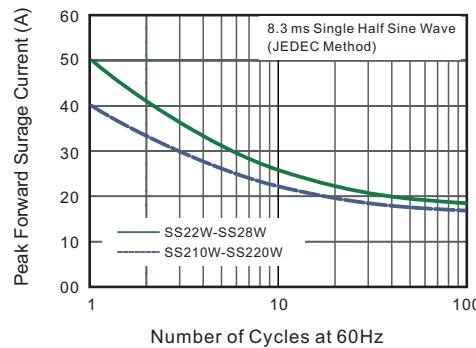
- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 27mg 0.00086oz

**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	$V_{RRM}$	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	$V_{DC}$	20	40	60	80	100	120	150	200	V			
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0							A				
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	50				40				A			
Max Instantaneous Forward Voltage at 2 A	$V_F$	0.55		0.70		0.85		0.95		V			
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Reverse Voltage $T_a = 100^\circ C$	$I_R$	0.5 10			0.3 5			mA					
Typical Junction Capacitance <sup>1)</sup>	$C_j$	220		80			pF						
Operating Junction Temperature Range	$T_j$	-55 ~ +125							°C				
Storage Temperature Range	$T_{stg}$	-55 ~ +150							°C				

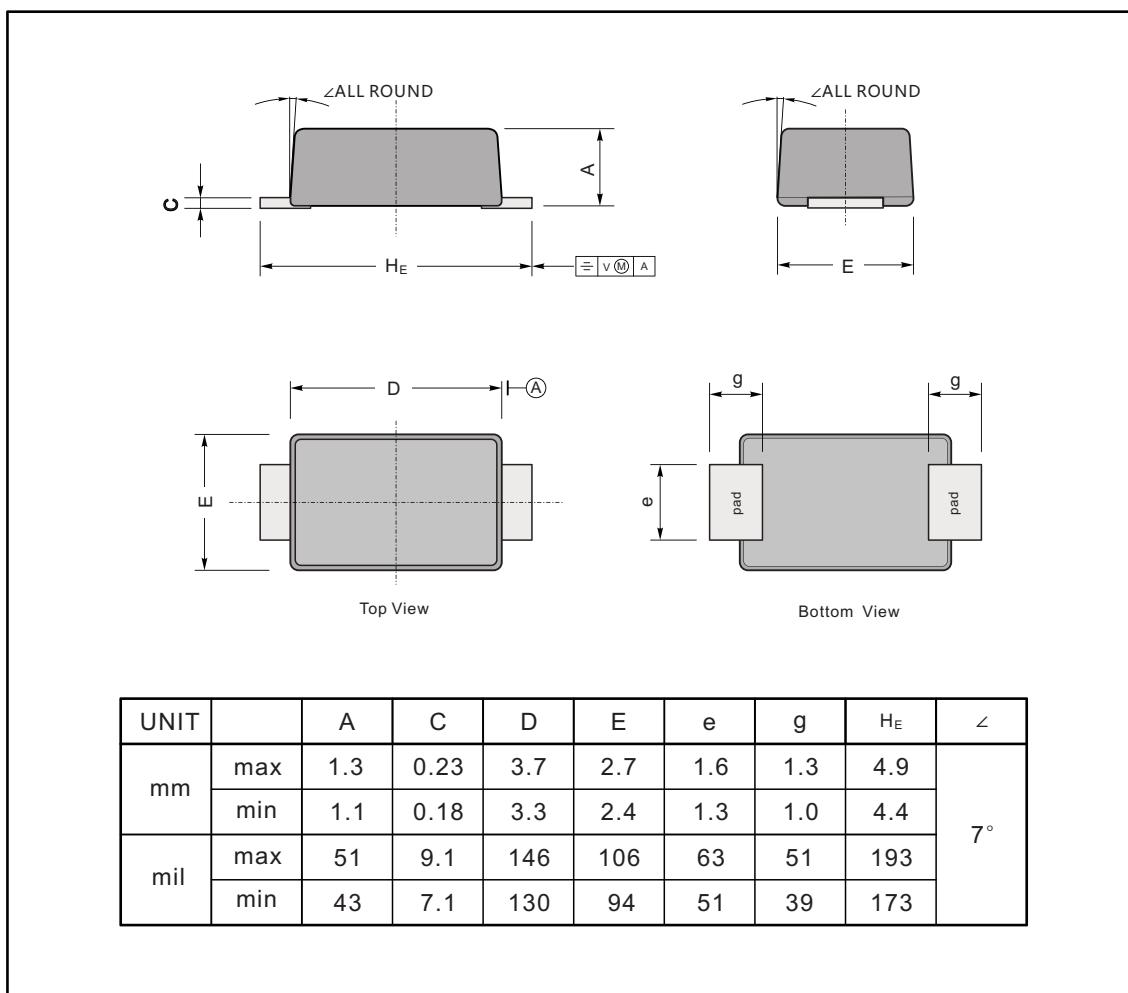
1) Measured at 1MHz and applied reverse voltage of 4 V D.C.

**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**


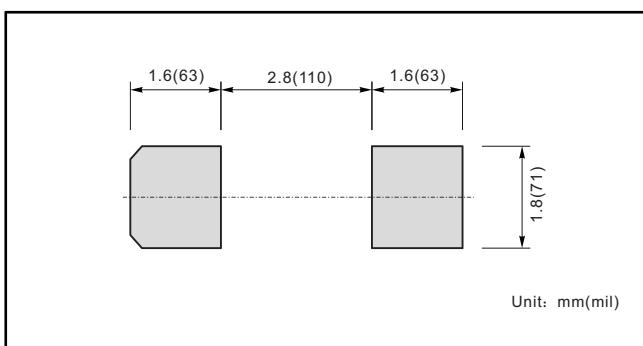
## PACKAGE OUTLINE

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