SS22F THRU SS220F
## *Surface Mount Schottky Rectifiers*

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   0.00086oz

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_{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 at Rated DC Reverse Voltage ($T_a = 25°C$ / $T_a =100°C$ / $T_a =125°C$)	I_R	0.5 5 /				0.3 / 5				mA
Typical Junction Capacitance [1]	C_j	220		80						pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	70								°C/W
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.
[2] P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

version: 02

Characteristic Curves (T =25 ℃ unless otherwise noted)

### Fig.1 Forward Current Derating Curve
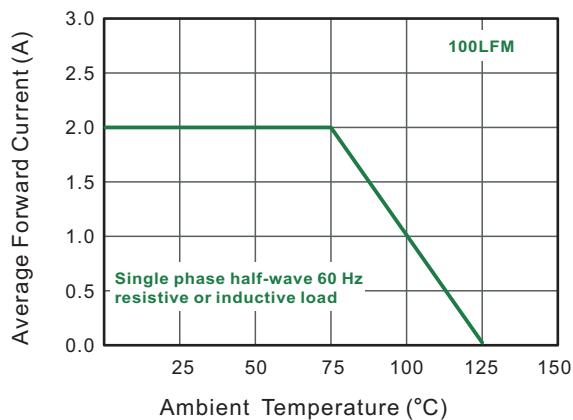

Fig.2 Typical Reverse Characteristics
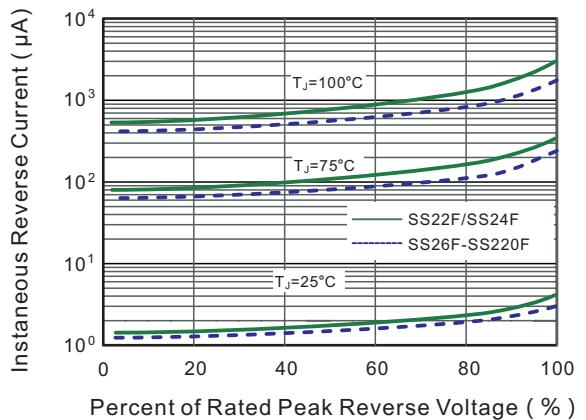
### Fig.3 Typical Forward Characteristic
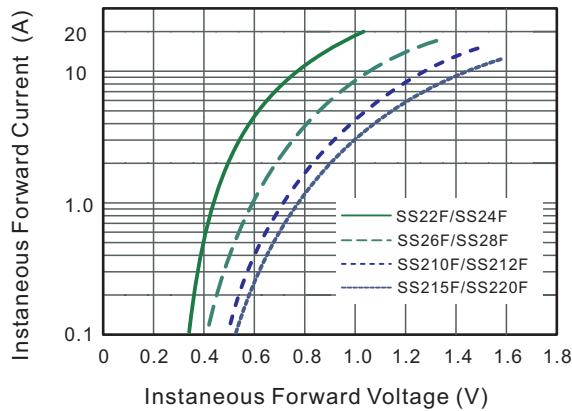

Fig.4 Typical Junction Capacitance
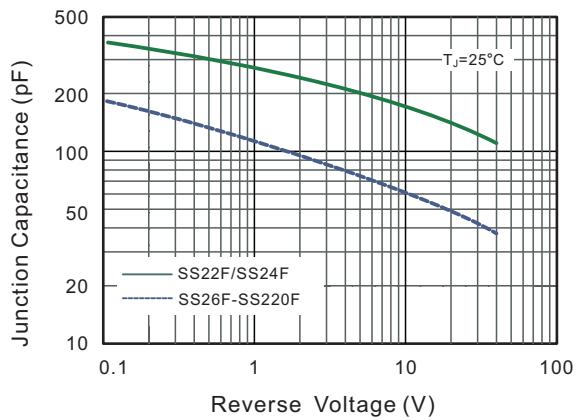
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current
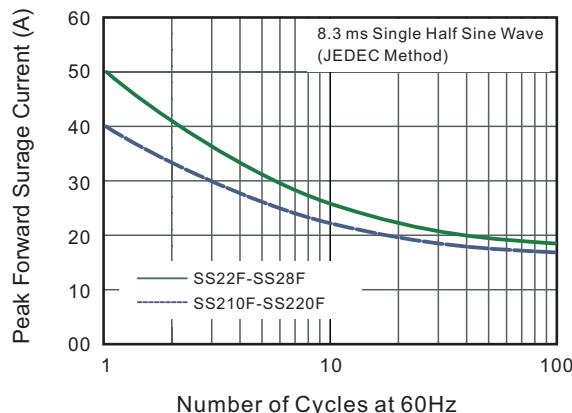
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF

Top View

Bottom View
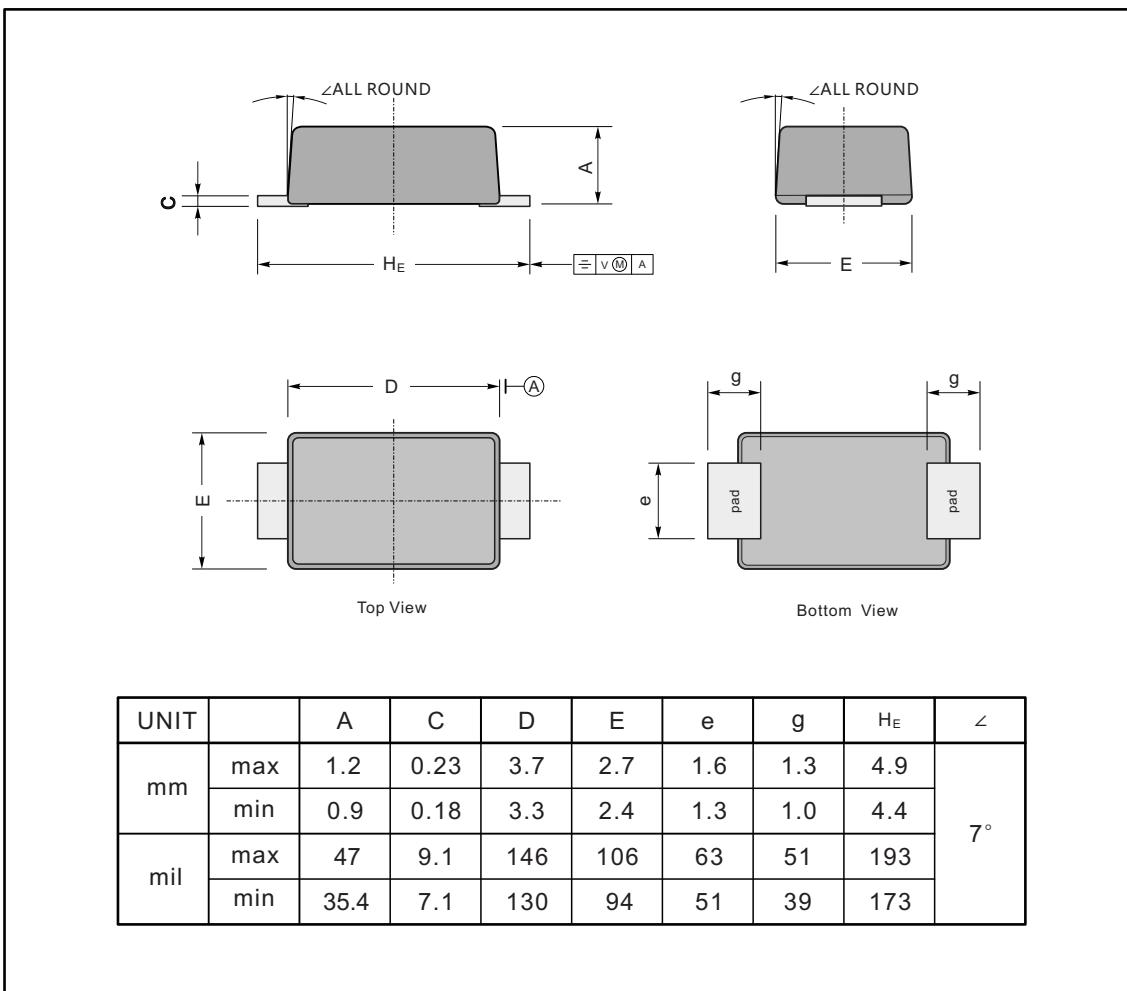
UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.2	0.23	3.7	2.7	1.6	1.3	4.9	7°
	min	0.9	0.18	3.3	2.4	1.3	1.0	4.4	
mil	max	47	9.1	146	106	63	51	193	
	min	35.4	7.1	130	94	51	39	173	

The recommended mounting pad size

1.6(63) 2.8(110) 1.6(63)

1.8(71)

Unit: mm(mil)
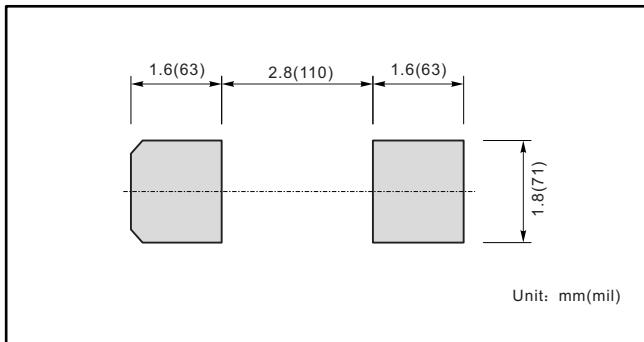
Marking

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

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