

## 2 Ampere Surface Mount Schottky Barrier Rectifier

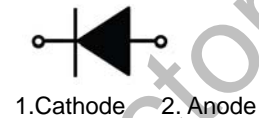


## SS22F-SS220F

## Features:

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- Fast switching for high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters

SMAF

**Absolute Maximum Ratings\*** ( $T_A=25^{\circ}\text{C}$  Unless otherwise noted)

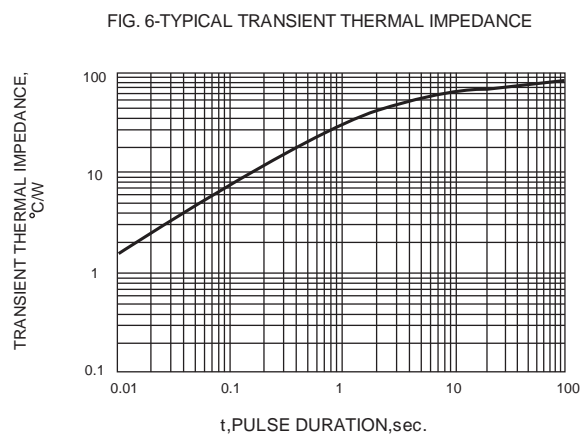
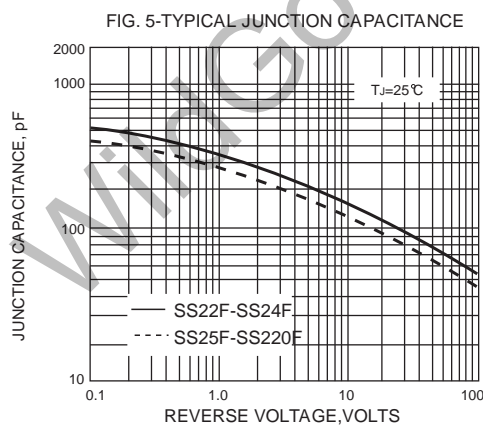
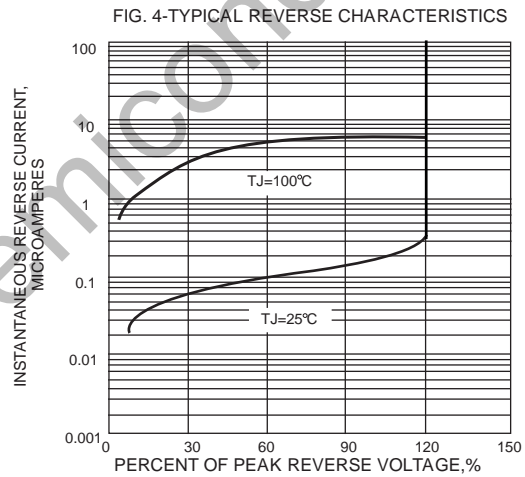
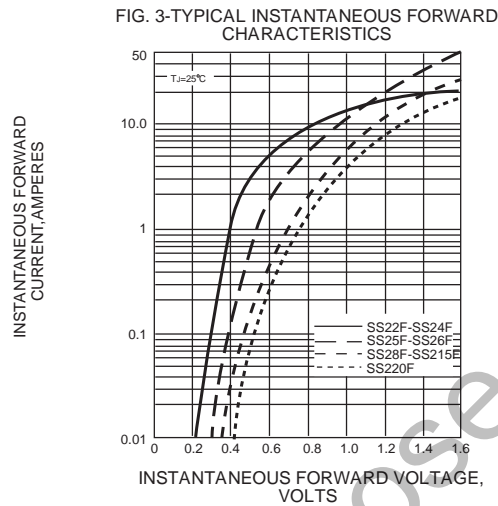
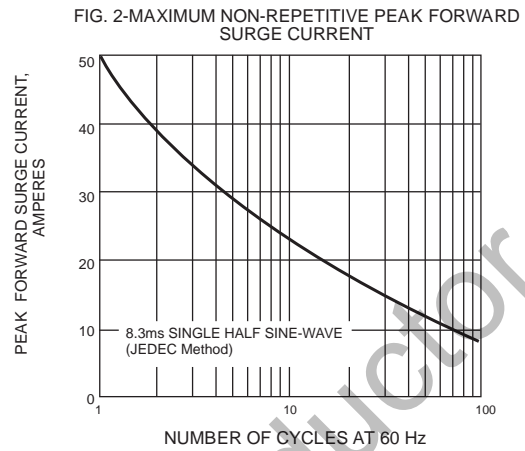
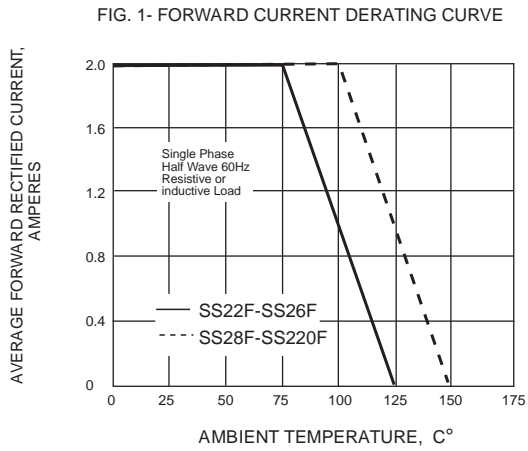
Ratings at  $25^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

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								A
Max Instantaneous Forward Voltage at 2A	$V_F$	0.55	0.70	0.85			0.95		V	
Maximum DC Reverse Current at Rated DC Reverse Voltage $T_a = 25^{\circ}\text{C}$ $T_a = 100^{\circ}\text{C}$	$I_R$	0.3 10		0.2 5			0.1 2		mA	
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	160	80						pF	
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	80								$^{\circ}\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 ~ +125			-55 ~ +150					$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ +150								$^{\circ}\text{C}$

(1) Measured at 1 MHz and applied reverse voltage of 4 VDC

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

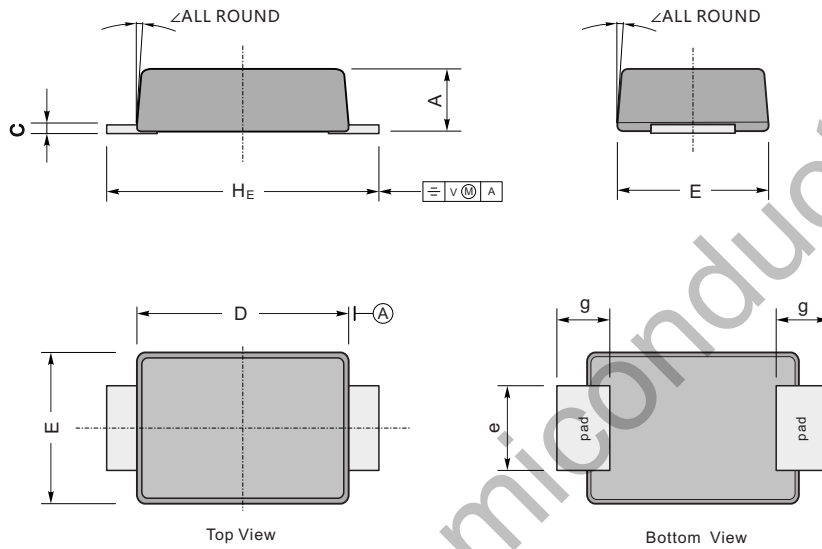
Typical Characteristics



**Package Dimension**

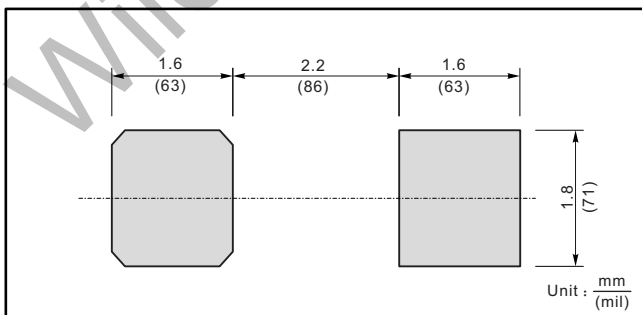
**SMAF**

Unit: mm



UNIT		A	C	D	E	e	g	H <sub>E</sub>	$\angle$
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	
mil	max	47	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	

**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

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