

2 Ampere Surface Mount Schottky Barrier Rectifier

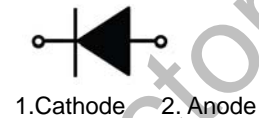


SS22F-SS220F

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)

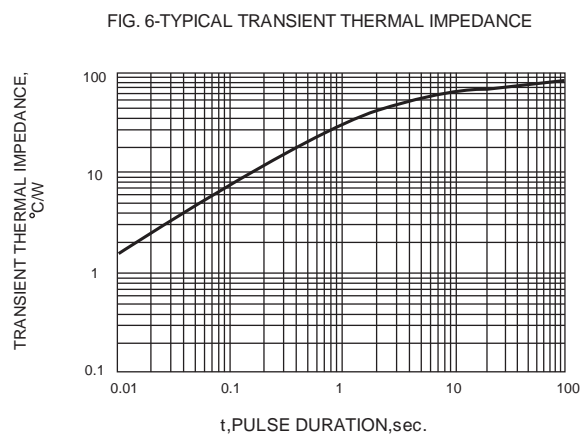
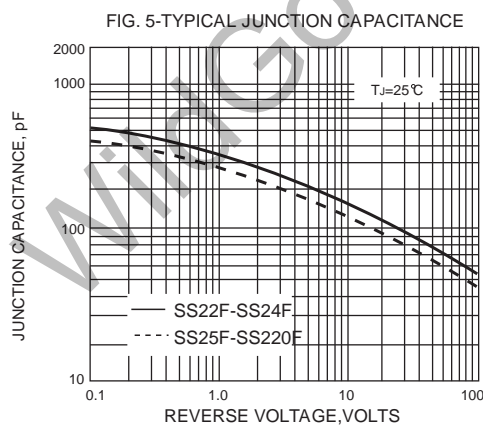
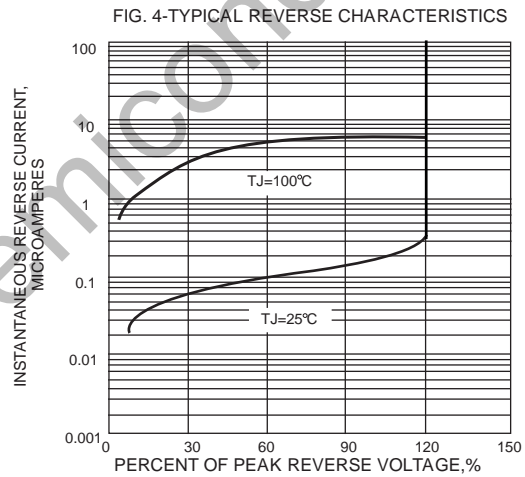
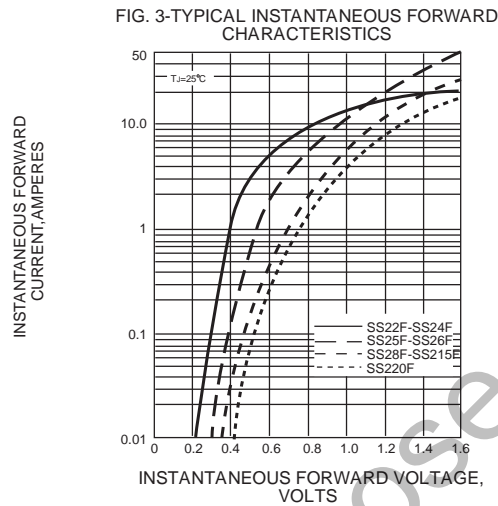
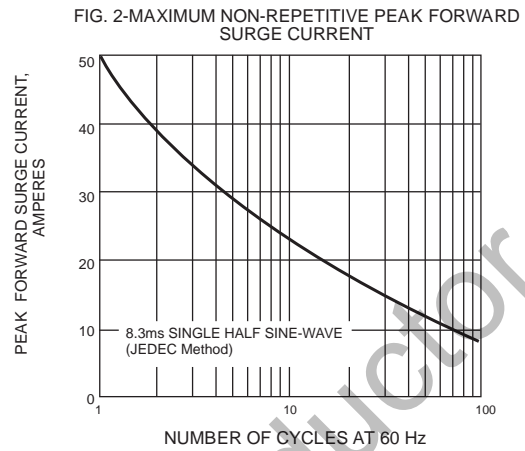
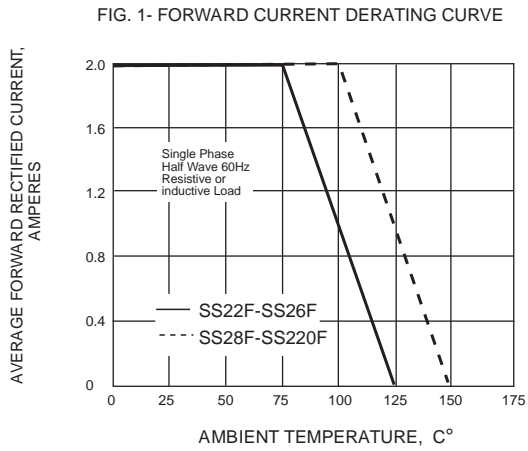
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

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 ⁽¹⁾	C_j	160	80						pF	
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	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.

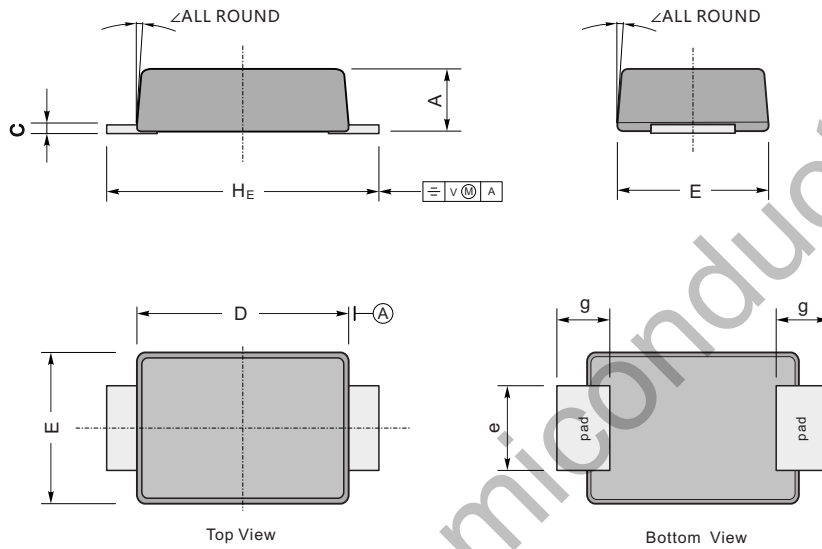
Typical Characteristics



Package Dimension

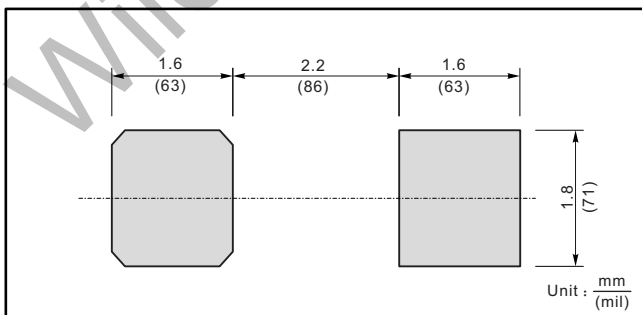
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Unit: mm



UNIT		A	C	D	E	e	g	HE	∠
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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