

SS22F THRU SS220F

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 0.00086oz

PINNING

PIN	DESCRIPTION					
1	Cathode					
2	Anode					



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	VRMS	14	28	42	56	70	84	105	140	٧		
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								Α		
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	ine-wave Superimposed				50				40			
Max Instantaneous Forward Voltage at 2 A	V _F	0.55 0.70			0.85 0.		95	٧				
Maximum DC Reverse Current T₂ = 25°C at Rated DC Reverse Voltage T₂ = 100°C	I _R		0.5 10	,	0.3 5					mA		
Typical Junction Capacitance 1)	Cj	220 80							pF			
Operating Junction Temperature Range	Tj	-55 ~ +125						°C				
Storage Temperature Range	T _{stg}	-55 ~ +150						°C				

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

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Fig.1 Forward Current Derating Curve

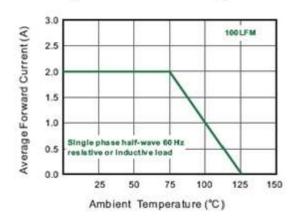


Fig.3 Typical Forward Characteristic

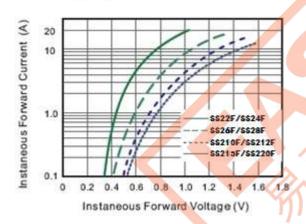


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



Fig.2 Typical Reverse Characteristics

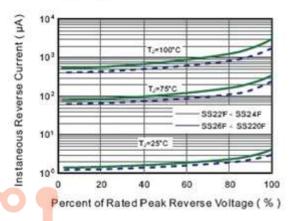
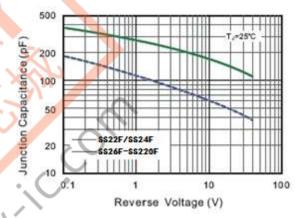


Fig.4 Typical Junction Capacitance



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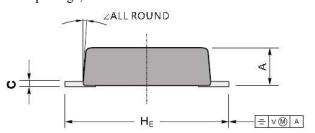


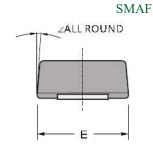


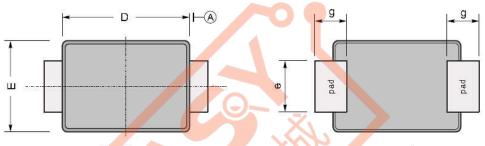
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



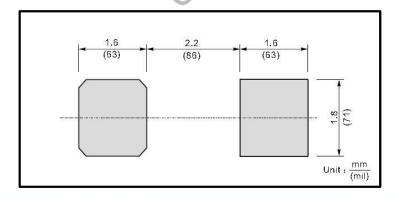




Top View Bottom View

UNIT		A	C	D	×Ε	е	g	HE	∠
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9	
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	7∘
mil	max	43	7.9	146	106	63	47	193	<u>(</u>
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size



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