

SS24F-HF Thru. SS220F-HF

Reverse Voltage: 40 to 200 Volts

Forward Current: 2.0 Amp

RoHS Device Halogen Free



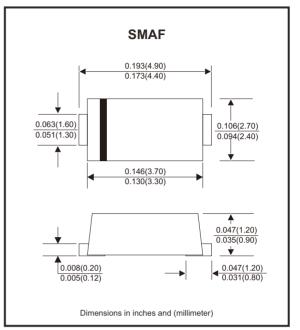
Features

- 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.



Circuit Diagram



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	SS24F-HF	SS26F-HF	SS210F-HF	SS215F-HF	SS220F-HF	Units
Maximum repetitive peak reverse voltage	VRRM	40	60	100	150	200	V
Maximum RMS voltage	VRMS	28	42	70	105	140	V
Maximum DC blocking voltage	VDC	40	60	100	150	200	V
Maximum average forward rectified current	lf(AV)	2					Α
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	Ігѕм	50					А
Max instantaneous forward voltage at 2A	VF	0.55	0.70	0.85	0.	95	V
	lr	0.5 5 0.3 3				mA	
Typical junction capacitance (Note 1) C _j 160 80			pF				
Typical thermal resistance (Note 2)	Rөja	80					°C/W
Operating junction temperature range	Tj	-55 ~ + 150					°C
Storage temperature range	Tstg	-55 ~ + 150					°C

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

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

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SMD Schottky Barrier Rectifiers



Rating and Characteristic Curves (SS24F-HF Thru. SS220F-HF)

Fig.1 - Forward Current Derating Curve

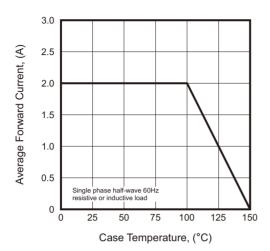


Fig.3 - Typical Forward Characteristic

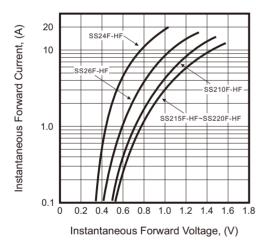


Fig.5 - Maximum Non-Repetitive Peak Forward Surge Current

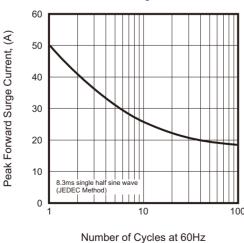
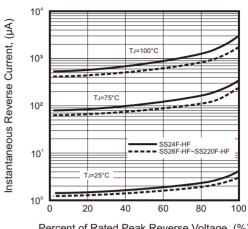


Fig.2 - Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage, (%)

Fig.4 - Typical Junction Capacitance

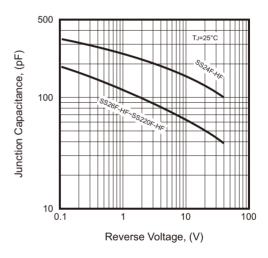
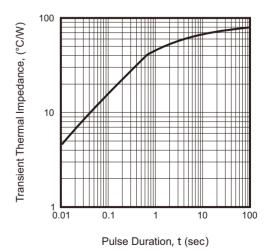


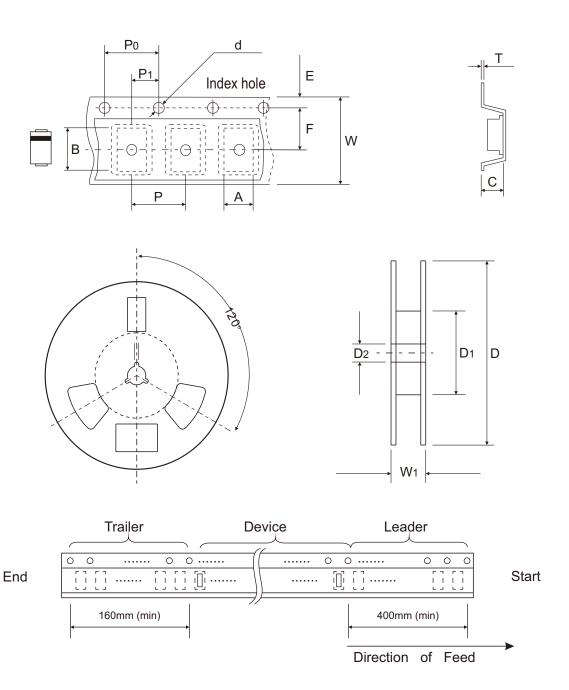
Fig.6 - Typical Transient Thermal Impedance



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Reel Taping Specification



	SYMBOL	Α	В	С	d	D	D1	D2
SMAF	(mm)	2.93 ± 0.10	5.33 ± 0.10	1.33 ± 0.10	1.55 ± 0.05	330 ± 2.00	75.00 ± 1.00	13.00 ± 0.20
	(inch)	0.115 ± 0.004	0.210 ± 0.004	0.052 ± 0.004	0.061 ± 0.002	12.992 ± 0.079	2.953 ± 0.039	0.512 ± 0.008

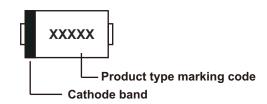
	SYMBOL	E	F	Р	P ₀	P1	Т	W	W 1
SMAF	(mm)	1.73 ± 0.10	5.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.20 ± 0.03	12.00 ± 0.30	14.70 + 2.00 - 1.00
	(inch)	0.068 ± 0.004	0.217 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.008 ± 0.001	0.472 ± 0.012	0.579 + 0.079 - 0.039

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Marking Code

Part Number	Marking Code
SS24F-HF	SS24
SS26F-HF	SS26
SS210F-HF	SS210
SS215F-HF	SS215
SS220F-HF	SS220

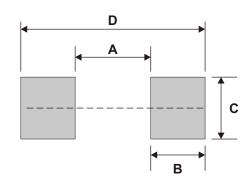


xxxx/xxxxx = Product type marking code

Suggested PAD Layout

SIZE	SMAF			
OIZL	(mm)	(inch)		
Α	2.20	0.087		
В	1.60	0.063		
С	1.80	0.071		
D	5.40	0.213		

Note: 1. The pad layout is for reference purpose only.



Standard Packaging

	REEL PACK			
Case Type	REEL (pcs)	Reel Size (inch)		
SMAF	10,000	13		

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