

SS12F THRU SS120F

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200 V

Forward Current - 1.0 A

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

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 %

PINNING

PIN	DESCRIPTION				
1	Cathode				
2	Anode				



Parameter	Symbols	SS12F	SS14F	SS16F	SS18F	SS110F	SS112F	SS115F	SS120F	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)}	1.0							А	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	40					30			
Max Instantaneous Forward Voltage at 1 A	VF	0.9	55	0.70		0.85		0.90		v
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =100°C	I _R	0.3 10			0.2 5		845	.1 2	mA	
Typical Junction Capacitance ¹⁾	Cj	110 80						pF		
Typical Thermal Resistance 2)	Raia	115						°C/W		
Operating Junction Temperature Range	Tj	-55 ~ +125						°C		
Storage Temperature Range	Tstg	-55~+150							°C	

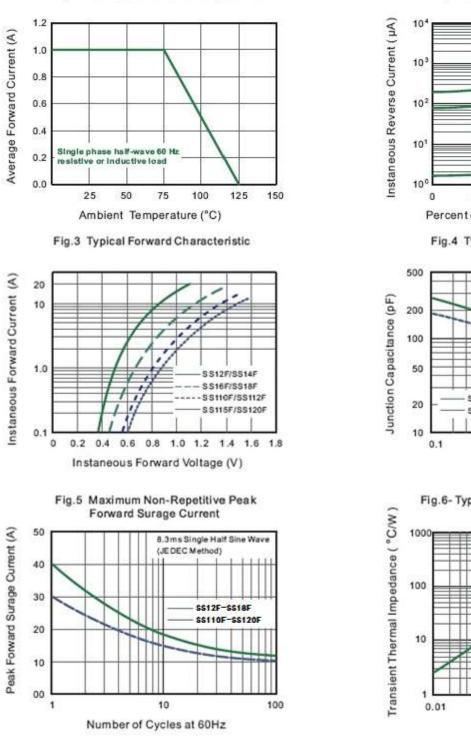
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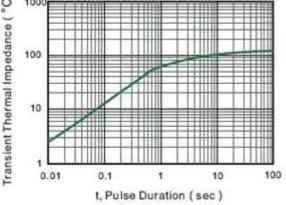
Fig.1 Forward Current Derating Curve



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T_=100°C T.=75°C T =25°C 20 40 60 80 100 Percent of Rated Peak Reverse Voltage (%) Fig.4 Typical Junction Capacitance SS12F/SS14F SS16F -SS120F 11111 1 10 100 Reverse Voltage(V) Fig.6- Typical Transient Thermal Impedance

Fig.2 Typical Reverse Characteristics





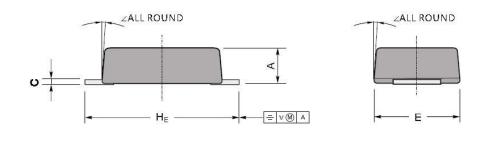


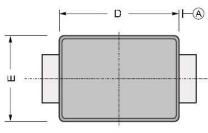
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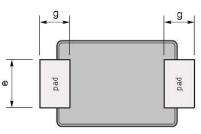
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF





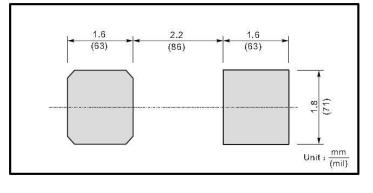


Top View

Bottom View

UNIT		А	С	D	Е	e	g	HE	Ż
mm mil	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°
	max	43	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	

The recommended mounting pad size



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