

SS12F THRU SS120F

PINNING

PIN

2

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200 V

Forward Current - 1.0 A

DESCRIPTION

Cathode

Anode

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, fre

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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 %

ree wheeling, and polarity protection applications		ı
ECHANICAL DATA	Top View	
Case: SMAF	Marking Code: SS12 — SS120 Simplified outline SMAF and symbol	ı
Germinals: Solderable per MIL-STD-750, Method 2026	omplined definite only and symbol	
approx. Weight: 27mg 0. 00086oz		
nalata Marianan Datinan and Electrical description		

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	٧
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	٧
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)	I _{FSM}	40				30				А
Max Instantaneous Forward Voltage at 1 A	V _F	0.55		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 0.1 5 2		0.00	mA		
Typical Junction Capacitance 1)	Cj	110		80						pF
Typical Thermal Resistance 2)	Raua	115								°C/W
Operating Junction Temperature Range	Tj	-55 ~ +125							°C	
Storage Temperature Range	Tstg	-55 ~ +150							°C	

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

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²⁾ P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.



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Fig.1 Forward Current Derating Curve

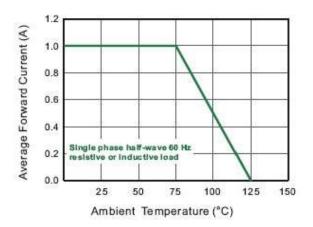


Fig.3 Typical Forward Characteristic

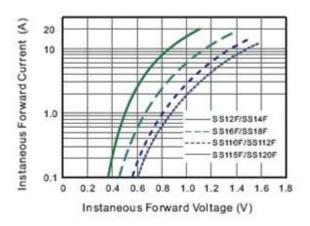


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

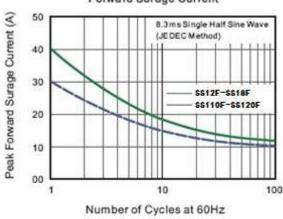


Fig.2 Typical Reverse Characteristics

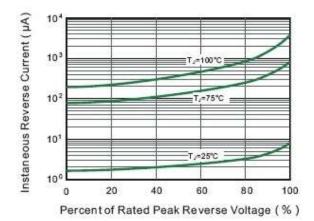


Fig.4 Typical Junction Capacitance

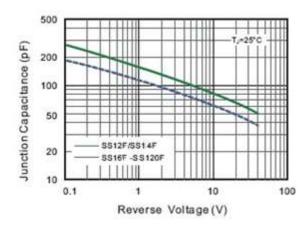
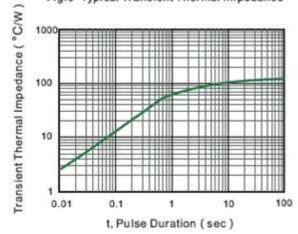


Fig.6- Typical Transient Thermal Impedance



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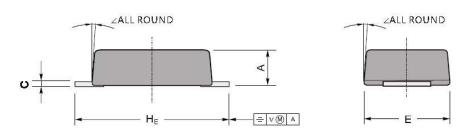


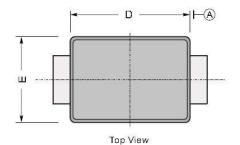
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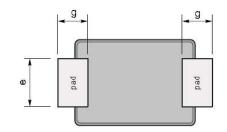
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



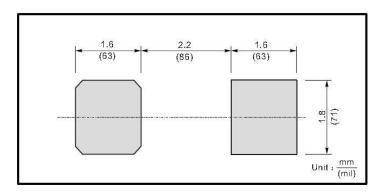




Bottom View

UNIT С D Α Ε H_{E} Ż е g max 1.1 0.20 3.7 2.7 1.6 1.2 4.9 mm min 0.12 0.9 3.3 2.4 1.3 8.0 4.4 7° max 43 7.9 146 106 63 47 193 mil min 35 4.7 130 94 31 173 51

The recommended mounting pad size



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单击下面可查看定价,库存,交付和生命周期等信息

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