

SS12FL THRU SS16FL

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 and 60 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

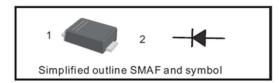
MECHANICAL DATA

- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 27mg 0. 00086oz

Absolute Maximum Ratings and Electrical characteristics

PINNING

	PIN	DESCRIPTION
	1	Cathode
2 Anode		Anode



Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 $^{\circ}$

Parameter	Symbols	SS12FL	SS14FL	SS16FL	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	v
Maximum RMS voltage	V _{RMS}	14	28	42	v
Maximum DC Blocking Voltage	V _{DC}	20 40 60			v
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0			
Peak Forward Surge Current, 8.3ms IFSM 40 Single Half Sine-wave Superimposed IFSM 40					А
Max Instantaneous Forward Voltage at 1 A	VF	0.4	0.45		
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =100°C	I _R	0.3 10	0. E		mA
Typical Junction Capacitance ¹⁾	Cj	180 80			pF
Typical Thermal Resistance 2)	R _{eja}	115			°C/W
Operating Junction Temperature Range	Tj	-55 ~ +125			
Storage Temperature Range	T _{stg}	-55 ~ +150			°C

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

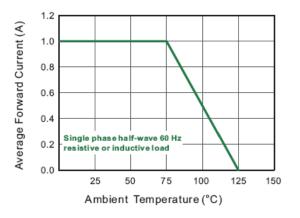
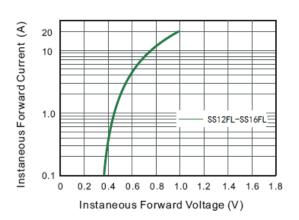
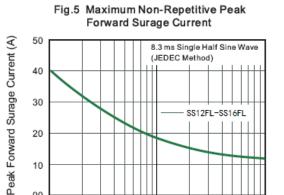


Fig.3 Typical Forward Characteristic





Number of Cycles at 60Hz

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10

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Fig.2 Typical Reverse Characteristics

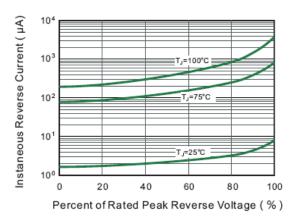
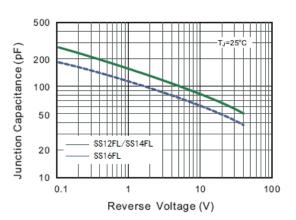
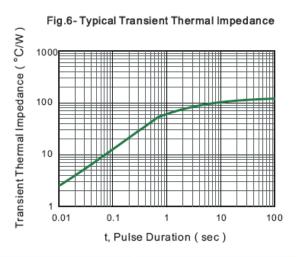


Fig.4 Typical Junction Capacitance







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1

100

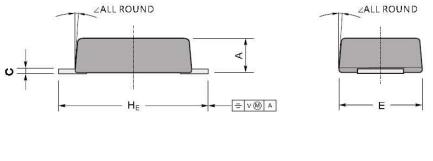


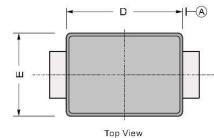
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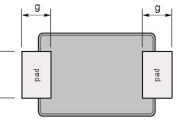
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF





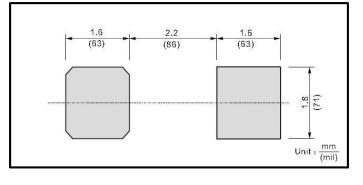


Bottom View

UNIT		А	С	D	Е	е	g	HE	Z
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9	
mm	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	6
	min	35	4.7	130	94	51	31	173	

¢

The recommended mounting pad size



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