



Surface Mount Schottky Barrier Rectifier

Reverse Voltage -20 to 200V

Forward Current — 3.0A

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:Solderableper MIL-STD-750,Method 2026
- Approx.Weight:27mg 0.00086oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Simplified outline SMAF and symbol

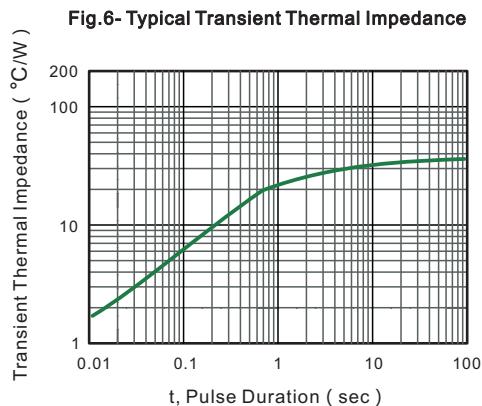
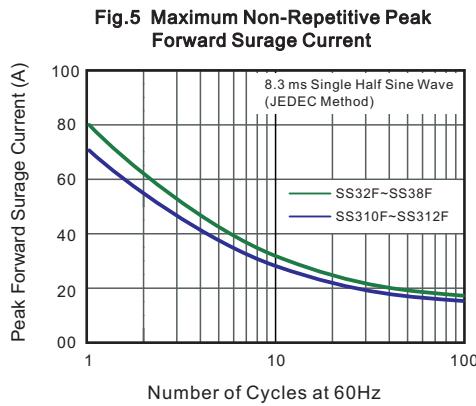
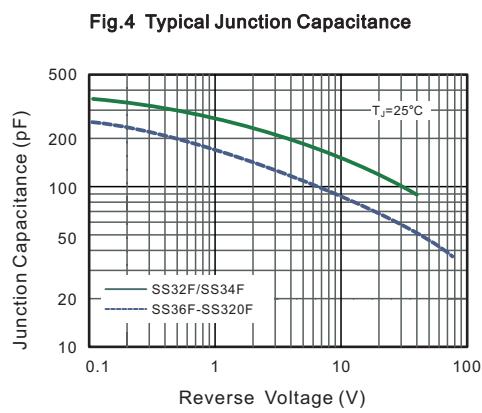
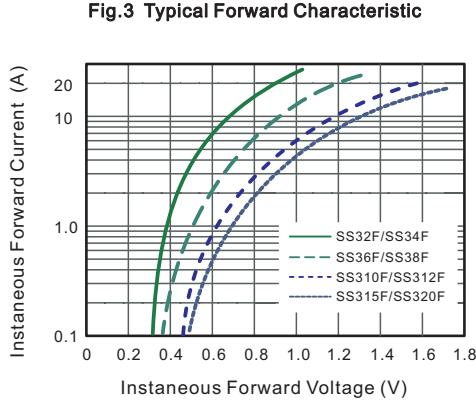
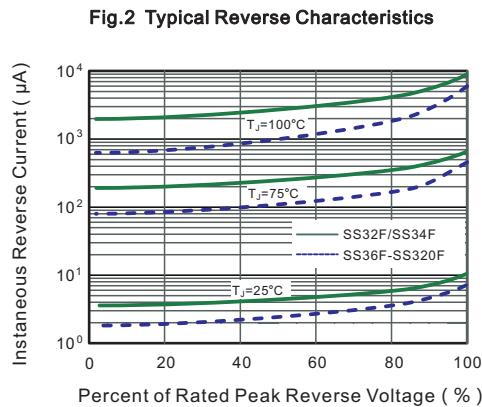
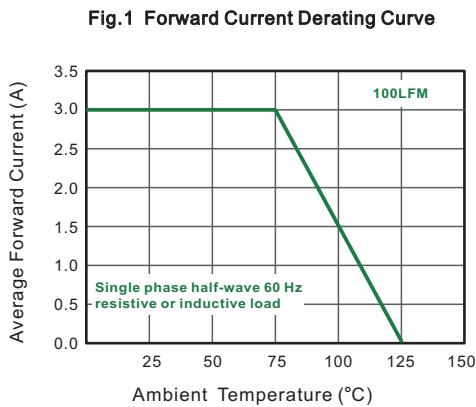
Absolute Maximum Ratings and Electrical characteristics

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	SS32F	SS34F	SS36F	SS38F	SS310F	SS312F	SS315F	SS320F	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)}	3.0							A					
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80				70				A				
Max Instantaneous Forward Voltage at 3 A	V _F	0.55		0.70		0.85		0.95		V				
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°C	I _R	0.5 10		0.3 5						mA				
Typical Junction Capacitance ¹⁾	C _j	250		160						pF				
Typical Thermal Resistance ²⁾	R _{θJA}	40							°C/W					
Operating Junction Temperature Range	T _j	-55 ~ +125							°C					
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.





SHENZHEN FAITH TECHNOLOGY CO., LTD

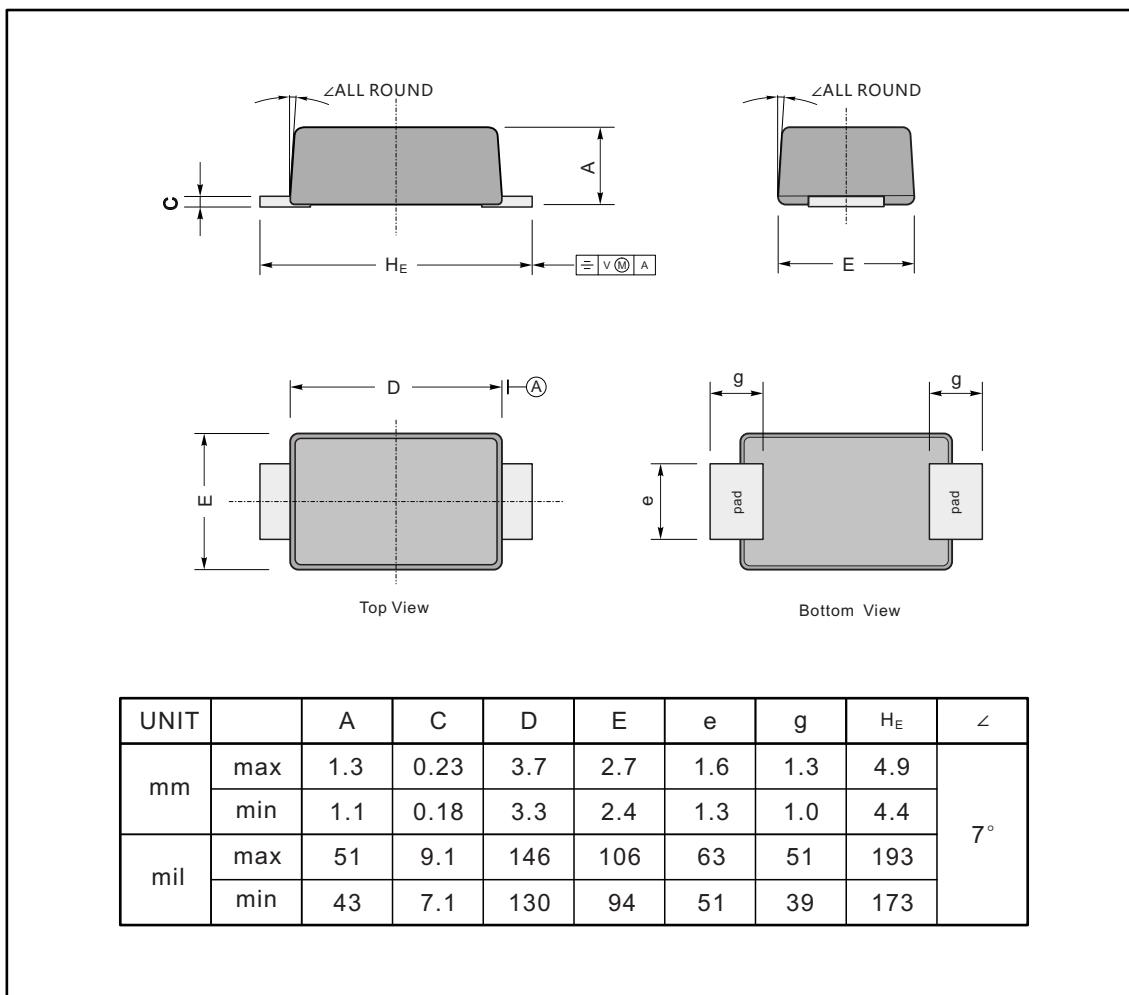
SCHOTTKY BARRIER RECTIFIER

SS32F THRU SS320F

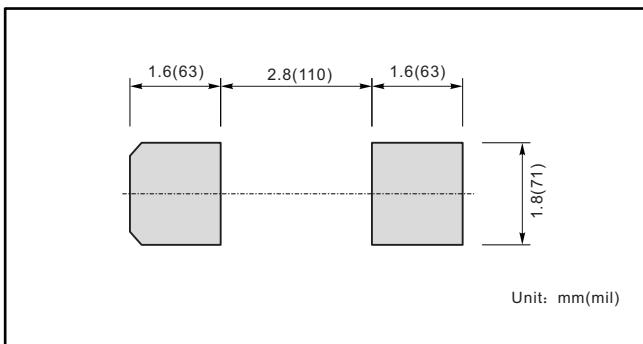
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size



Marking

Type number	Marking code
SS32F	SS32
SS34F	SS34
SS36F	SS36
SS38F	SS38
SS310F	SS310
SS312F	SS312
SS315F	SS315
SS320F	SS320