

# SS32F-AT THRU SS320F-AT

## Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200 V

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: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 27mg / 0.00095oz

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View  
Marking Code: SS32--SS320  
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-AT	SS34F-AT	SS34AF-AT	SS36F-AT	SS38F-AT	SS310F-AT	SS312F-AT	SS315F-AT	SS320F-AT	Units								
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	45	60	80	100	120	150	200	V								
Maximum RMS voltage	V <sub>RMS</sub>	14	28	31.5	42	56	70	84	105	140	V								
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	45	60	80	100	120	150	200	V								
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3.0									A								
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	80									A								
Max Instantaneous Forward Voltage at 3A	V <sub>F</sub>	0.55		0.70		0.85		0.95		V									
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Reverse Voltage T <sub>a</sub> = 100°C	I <sub>R</sub>	0.5			5			0.3			mA								
Typical Junction Capacitance <sup>(1)</sup>	C <sub>j</sub>	250			180			180			pF								
Typical Thermal Resistance <sup>(2)</sup>	R <sub>θJA</sub> R <sub>θJC</sub>	70			18			°C/W			°C/W								
Operating Junction Temperature Range	T <sub>j</sub>	-55 ~ +150									°C								
Storage Temperature Range	T <sub>stg</sub>	-55 ~ +150									°C								

(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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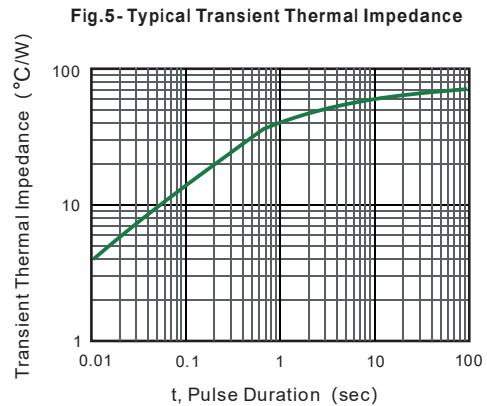
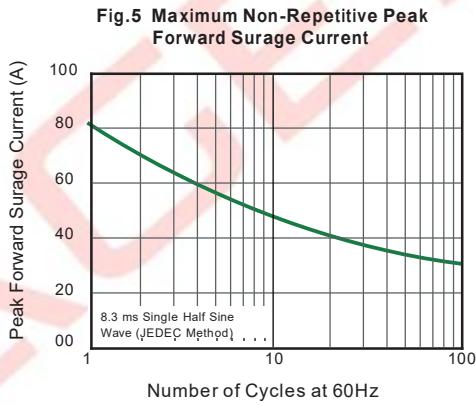
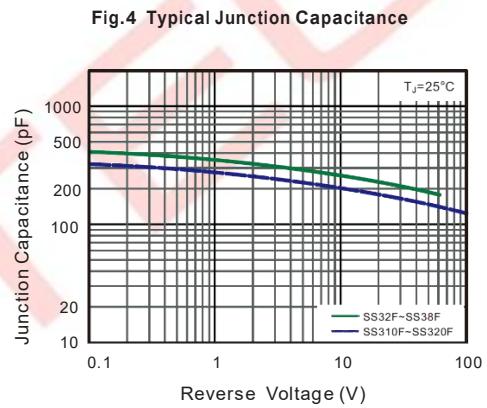
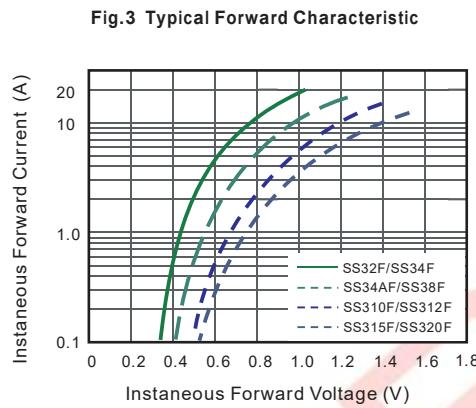
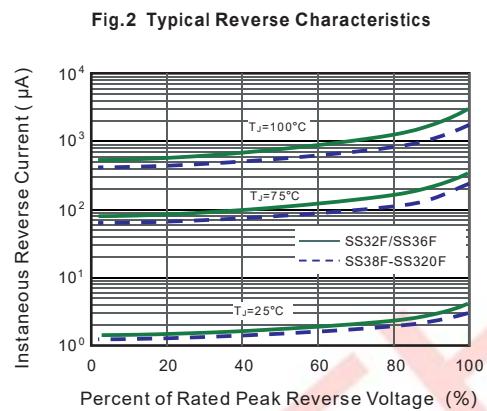
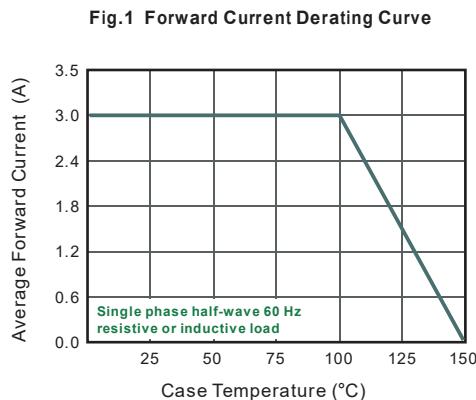
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Dated:01/2018

Rev: 2.1

# SS32F-AT THRU SS320F-AT

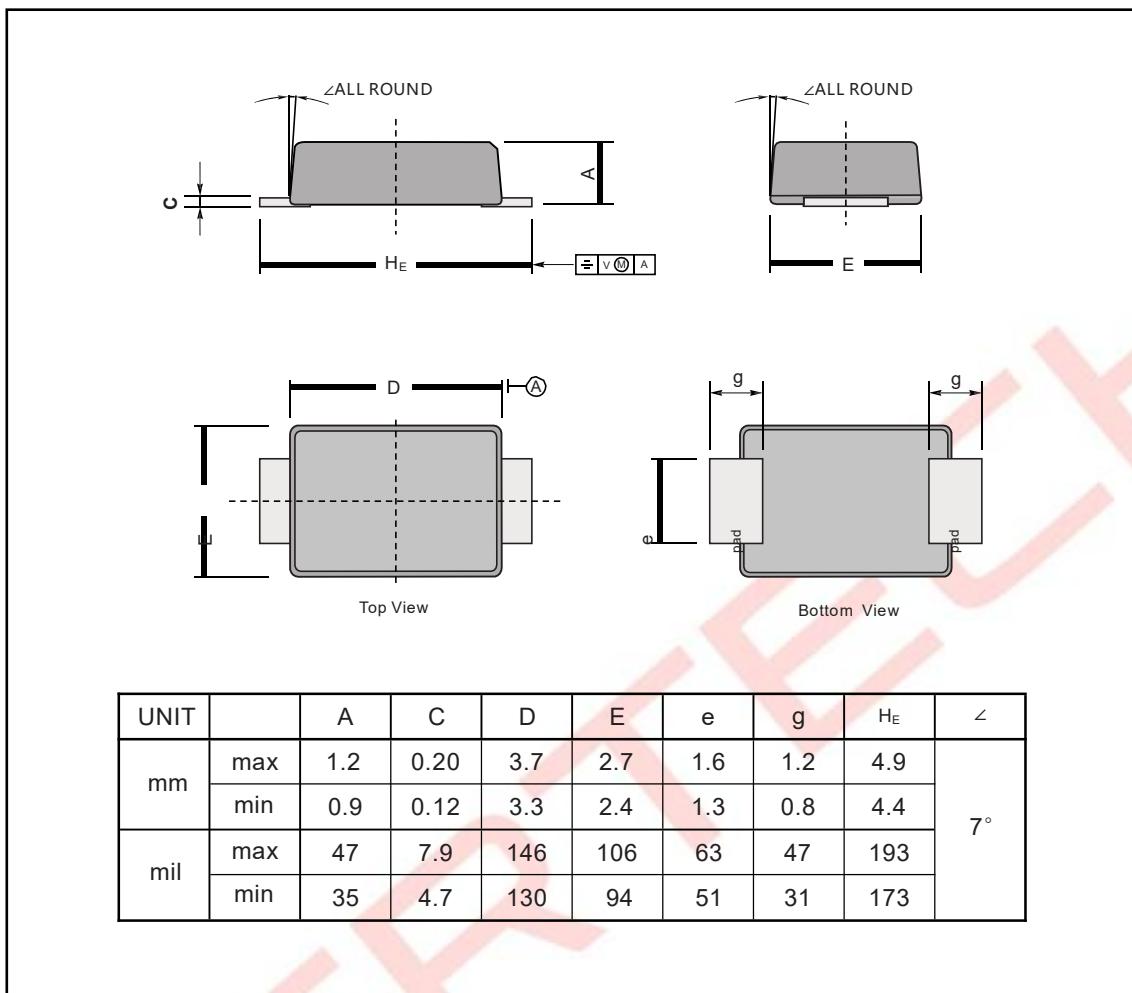
## Typical Characteristics Curves



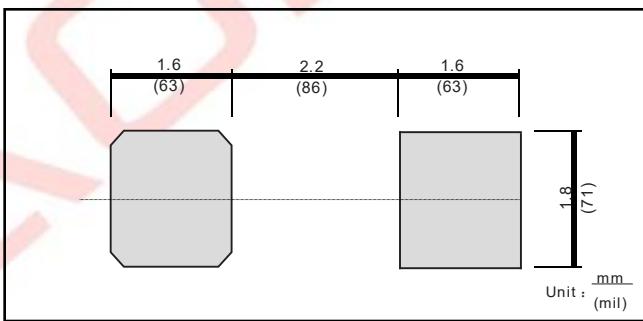
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## Package Outline

SMAF



The recommended mounting pad size



Marking

Type number	Marking code
SS32F-AT	SS32
SS34F-AT	SS34
SS34AF-AT	SS34A
SS36F-AT	SS36
SS38F-AT	SS38
SS310F-AT	SS310
SS312F-AT	SS312
SS315F-AT	SS315
SS320F-AT	SS320