



RoHS
COMPLIANT



Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200V

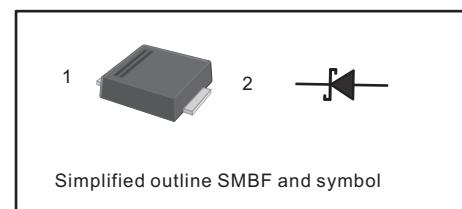
Forward Current - 3.0A

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MECHANICAL DATA

- Case: SMBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 57mg / 0.002oz

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 %

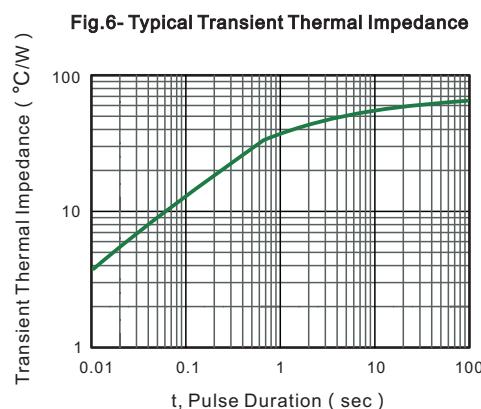
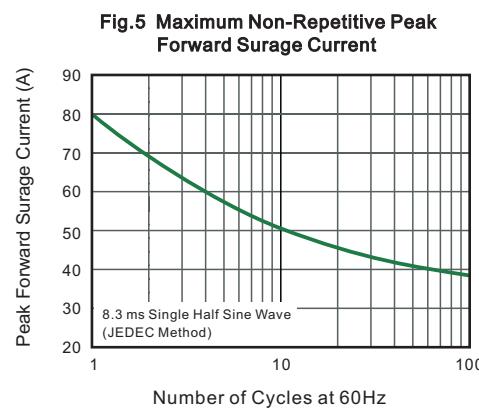
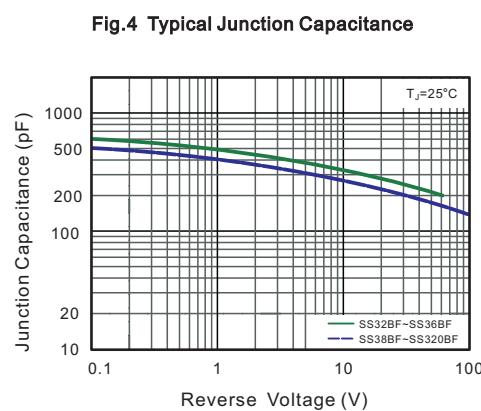
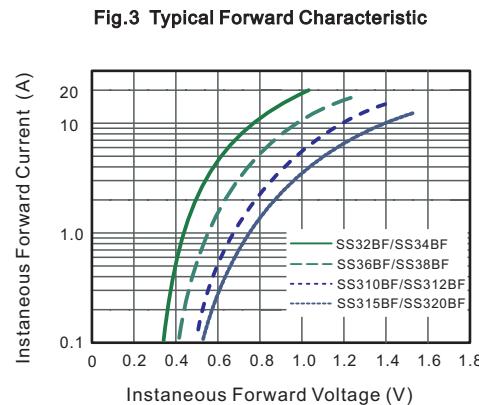
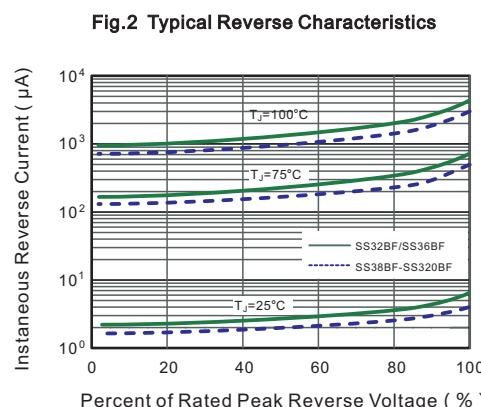
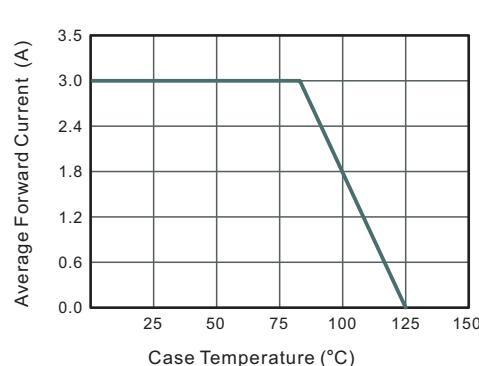
Parameter	Symbols	SS32BF	SS34BF	SS36BF	SS38BF	SS310BF	SS312BF	SS315BF	SS320BF	Units								
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V								
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V								
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	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								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 5		0.3 3						mA								
Typical Junction Capacitance ⁽¹⁾	C _j	450		400						pF								
Typical Thermal Resistance ⁽²⁾	R _{θJA}	65								°C/W								
Operating Junction Temperature Range	T _j	-55 ~ +125								°C								
Storage Temperature Range	T _{stg}	-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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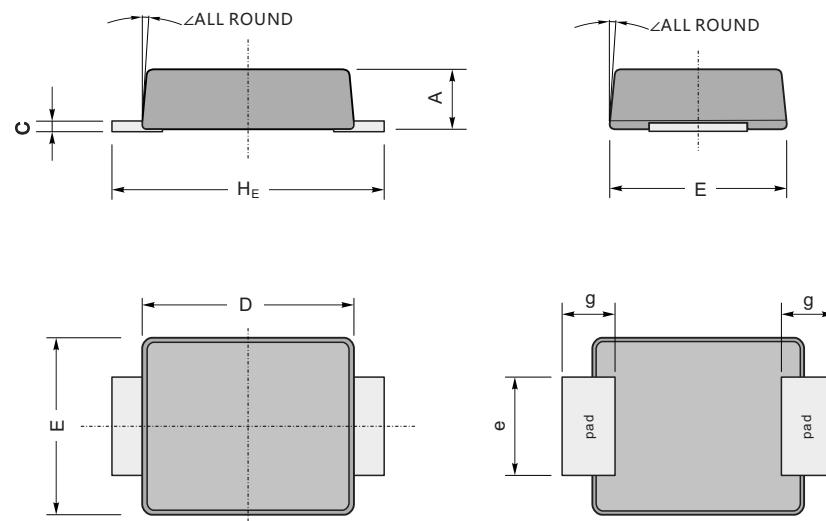
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PACKAGE OUTLINE

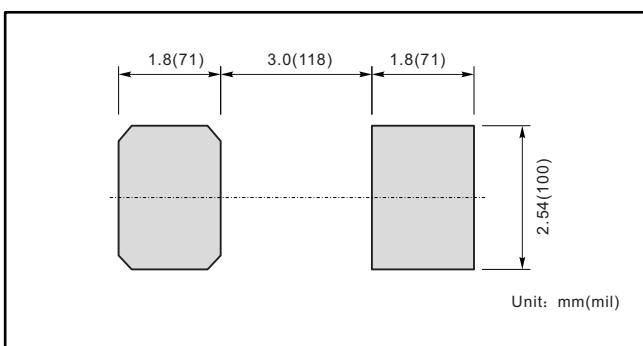
Plastic surface mounted package; 2 leads

SMBF



UNIT		A	C	D	E	H _E	e	g	∠
mm	max	1.45	0.26	4.4	3.7	5.5	2.2	0.9	6°
	min	1.25	0.18	4.2	3.5	5.1	1.9		
mil	max	57	10	173	146	216	86	35	6°
	min	49	7	165	138	200	75		

The recommended mounting pad size



Marking

Type number	Marking code
SS32BF	SS32
SS34BF	SS34
SS36BF	SS36
SS38BF	SS38
SS310BF	SS310
SS312BF	SS312
SS315BF	SS315
SS320BF	SS320