



RoHS
COMPLIANT



Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200 V

Forward Current - 3 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: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 95mg (0.0034oz)

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Marking Code: SS32 ~ SS320
Simplified outline SMB and symbol

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

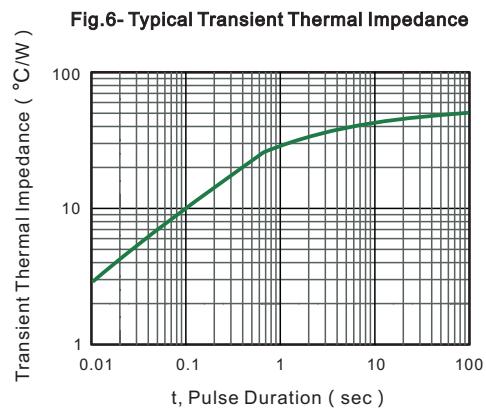
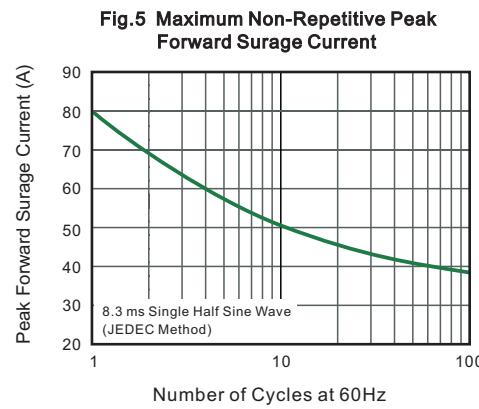
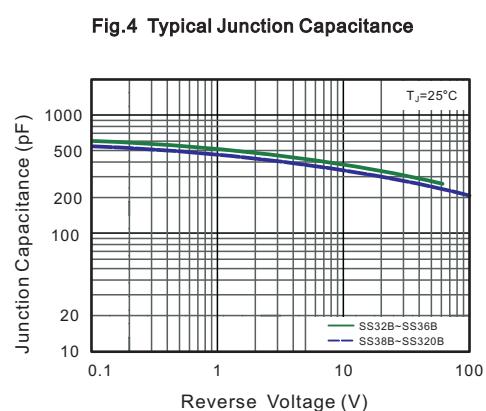
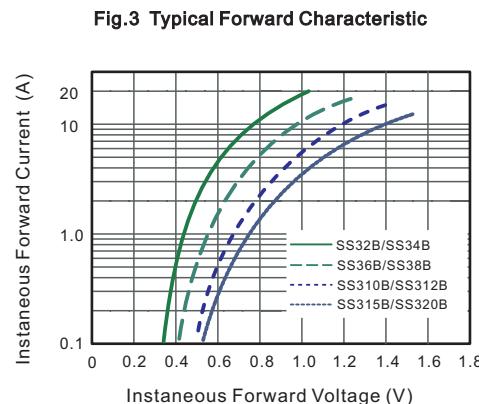
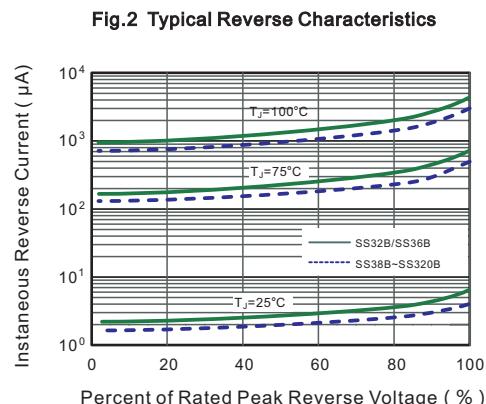
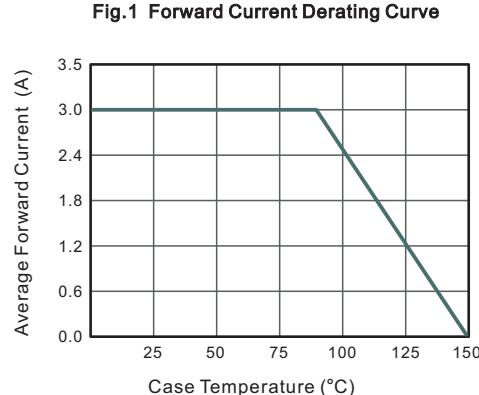
Parameter	Symbols	SS32B	SS34B	SS36B	SS38B	SS310B	SS312B	SS315B	SS320B	Units		
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V		
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V		
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V		
Maximum Average Forward 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 $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$	I_R	0.5 5		0.3 3						mA		
Typical Junction Capacitance ⁽¹⁾	C_j	450		400						pF		
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	60							$^\circ\text{C/W}$			
Operating Junction Temperature Range	T_j	-55 ~ +150							$^\circ\text{C}$			
Storage Temperature Range	T_{stg}	-55 ~ +150							$^\circ\text{C}$			

(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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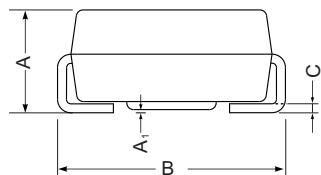
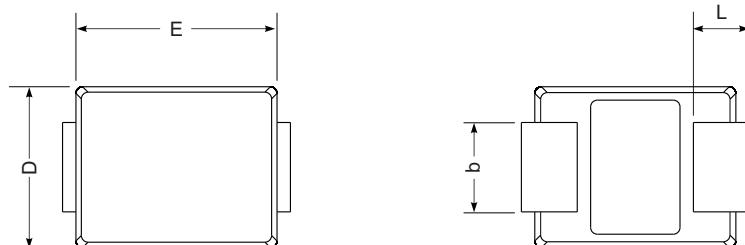
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

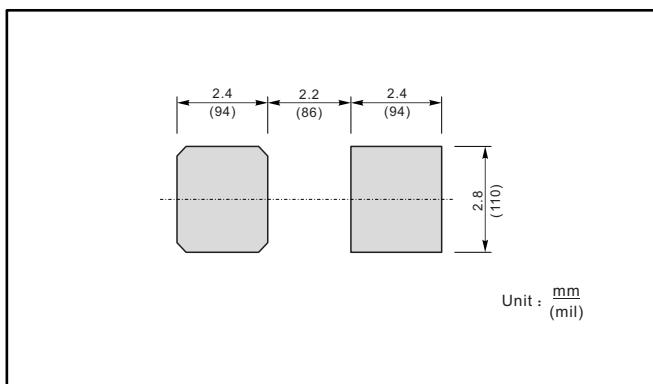
SMB



SMB mechanical data

UNIT		A	E	D	B	A ₁	L	C	b
mm	max	2.5	4.70	3.94	5.5	0.21	1.5	0.305	2.2
	min	2.1	4.06	3.3	5.0	0.05	0.8	0.152	1.9
mil	max	98	185	155	216	8.3	59	12	87
	min	82	160	130	196	2.0	32	6	75

The recommended mounting pad size



Marking

Type number	Marking code
SS32B	SS32
SS34B	SS34
SS36B	SS36
SS38B	SS38
SS310B	SS310
SS312B	SS312
SS315B	SS315
SS320B	SS320