



Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 45V

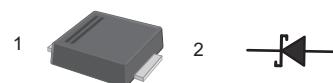
Forward Current - 3.0A

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



Simplified outline SMBF and symbol

MECHANICAL DATA

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

Maximum Ratings and Electrical characteristics

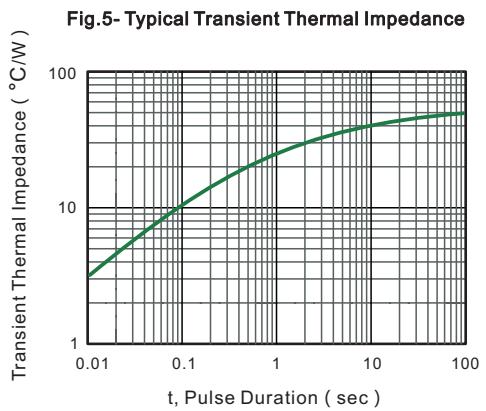
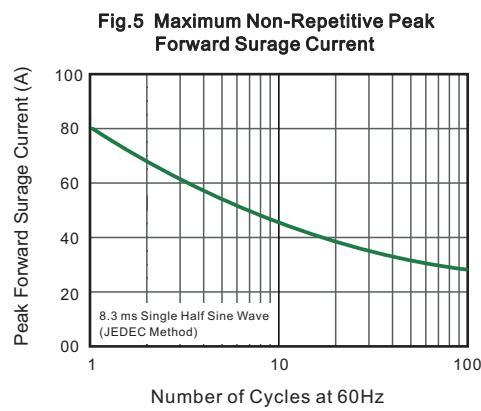
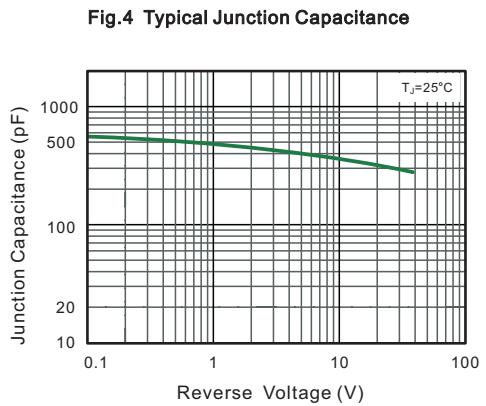
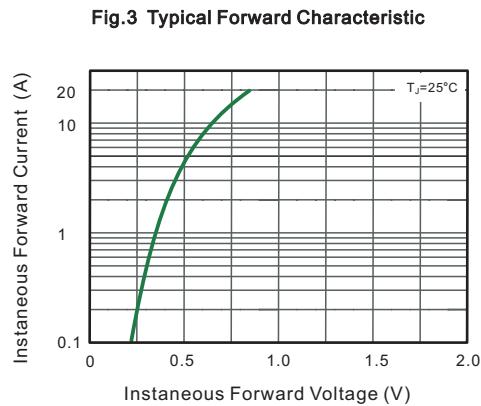
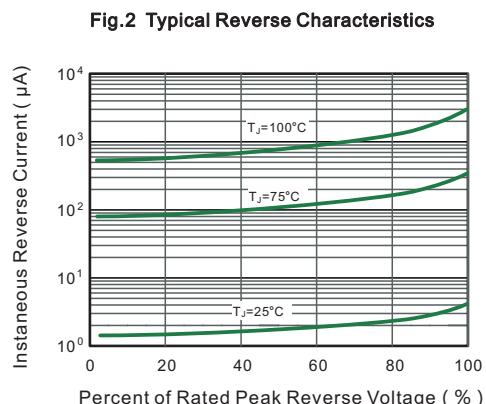
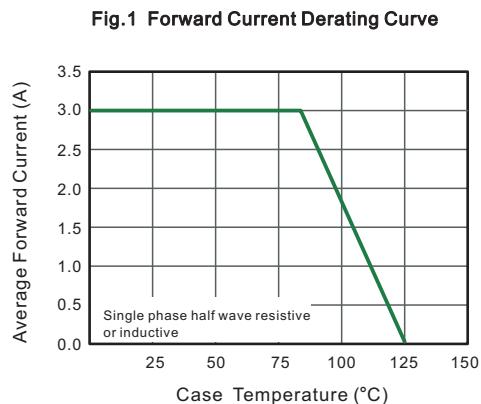
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	SSL345BF	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	45	V
Maximum RMS voltage	V <sub>RMS</sub>	32	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	45	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	3	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	80	A
Maximum Instantaneous Forward Voltage at 3 A	V <sub>F</sub>	0.45	V
Maximum DC Reverse Current T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage T <sub>a</sub> = 100 °C	I <sub>R</sub>	0.5 5	mA
Typical Junction Capacitance <sup>(1)</sup>	C <sub>j</sub>	350	pF
Typical Thermal Resistance <sup>(2)</sup>	R <sub>θJA</sub>	50	°C/W
Operating Junction Temperature Range	T <sub>j</sub>	-55 ~ +125	°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.

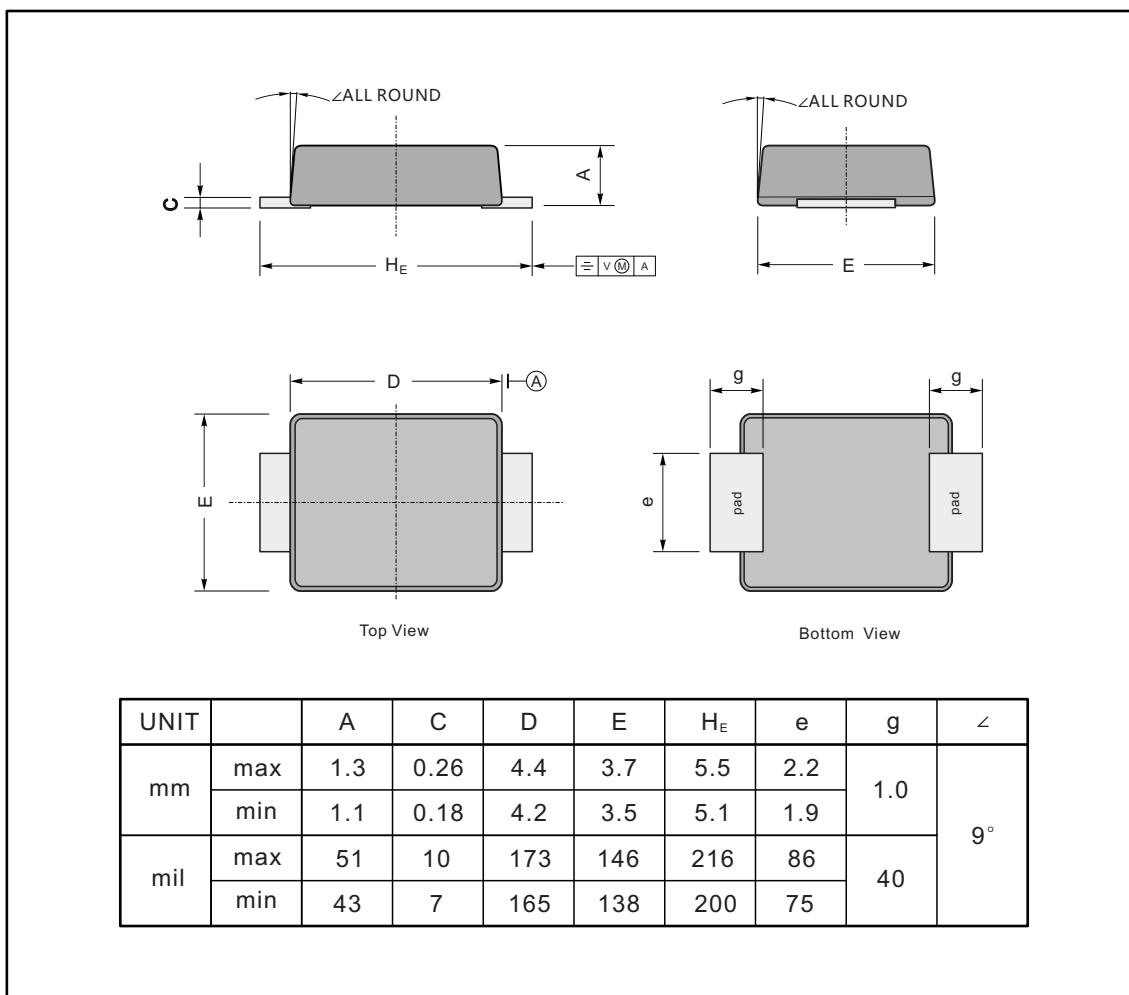




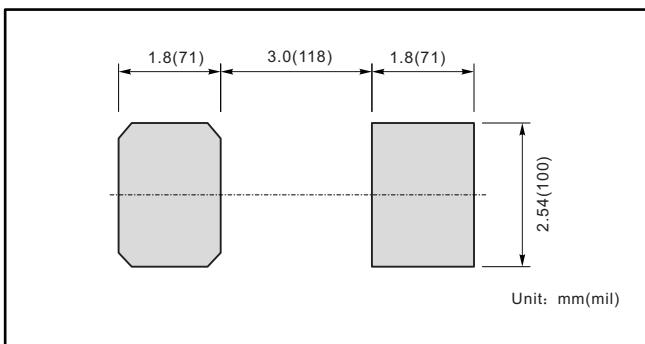
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



### The recommended mounting pad size



### Marking

Type number	Marking code
SSL345BF	SL345B