

**Surface Mount Schottky Barrier Rectifier**

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Reverse Voltage - 60V

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: 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 %.

**PINNING**

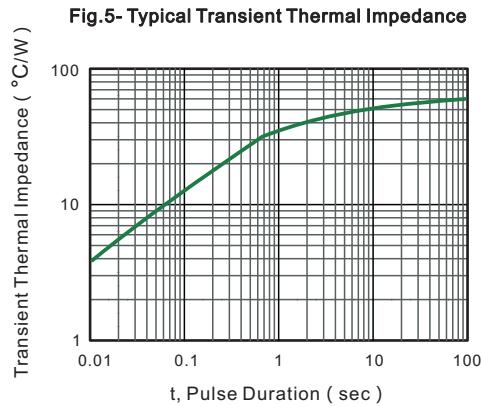
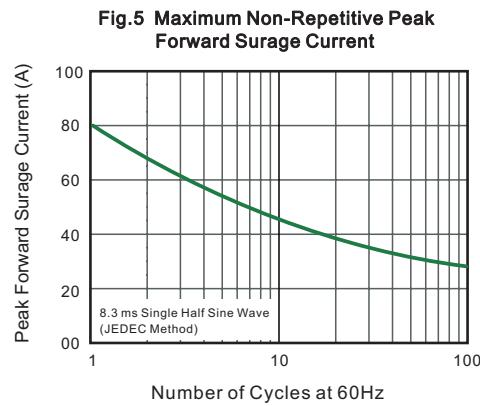
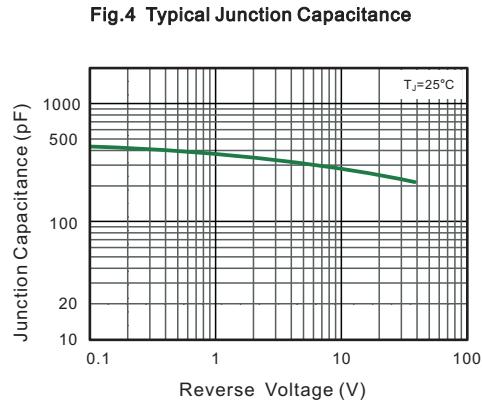
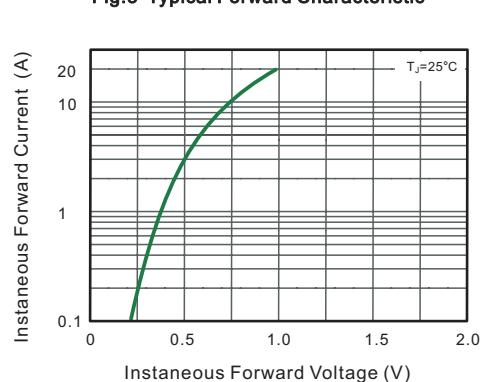
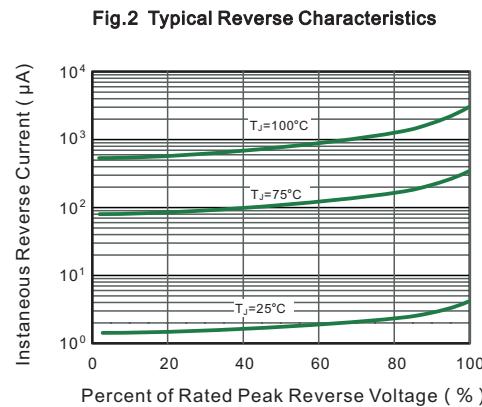
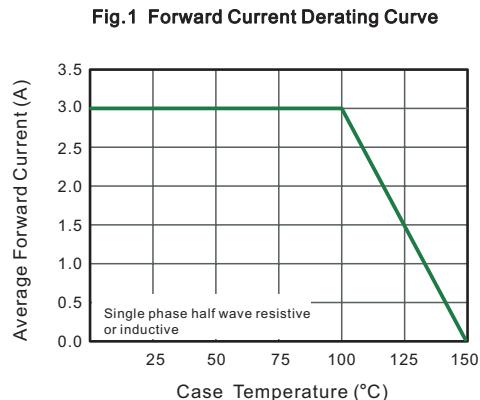
PIN	DESCRIPTION
1	Cathode
2	Anode


 Top View  
 Marking Code: SSL36B  
 Simplified outline SMBF and symbol

Parameter	Symbols	SSL36BF	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum RMS voltage	$V_{RMS}$	42	V
Maximum DC Blocking Voltage	$V_{DC}$	60	V
Maximum Average Forward Rectified Current at $T_c = 100^\circ C$	$I_{F(AV)}$	3	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	$I_{FSM}$	80	A
Maximum Instantaneous Forward Voltage at 3 A	$V_F$	0.5	V
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a = 100^\circ C$	$I_R$	0.3 5.0	mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	400	pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	60	°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150	°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C.

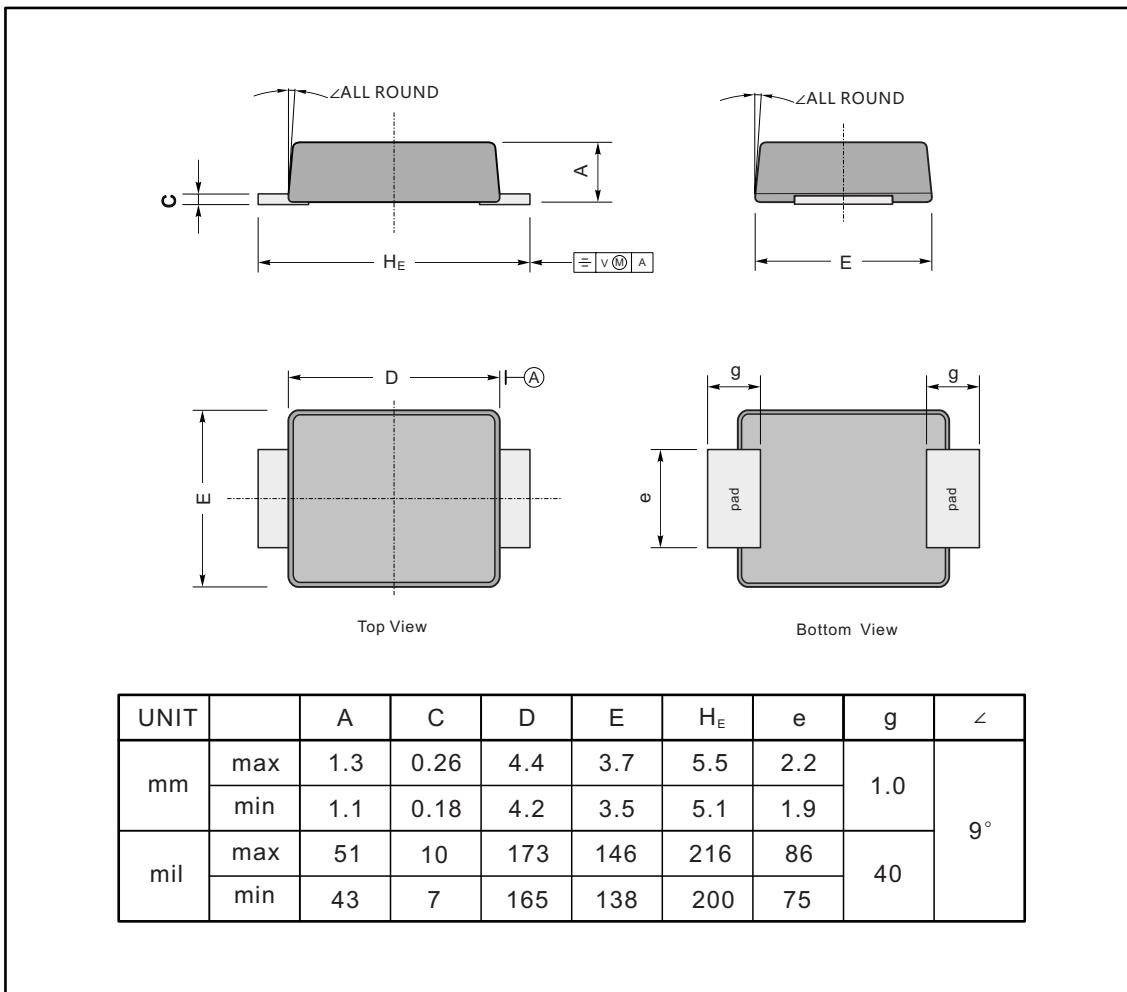
(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



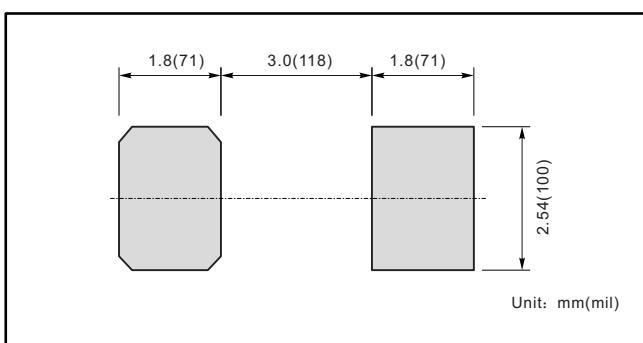
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



### The recommended mounting pad size



### Marking

Type number	Marking code
SSL36BF	SSL36B