



Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 100 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

Lead free in comply with EU RoHS 2011/65/EU directives

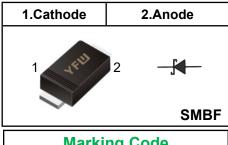
MECHANICAL DATA

♦Case: SMBF

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦Approx. Weight: 57mg / 0.002oz

Pinning



Marking Code		
SSL310BF	YFW SL310B	

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}$ ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 $^{\circ}$

Parameter	Symbols	SSL310BF	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	100	V
Maximum RMS voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0	Α
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	lfsм	80	Α
Maximum Instantaneous Forward Voltage at 3 A	VF	0.6	V
Maximum Instantaneous Reverse Current TA = 25°C at Rated DC Reverse Voltage TA = 100°C	I R	0.1	mA
Typical Junction Capacitance (1)	C _j	160	pF
Typical Thermal Resistance (2)	Reja	60	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +150	°C
Storage Temperature Range	T _{stg}	-55 ~ + 150	°C

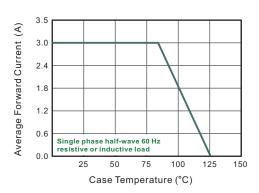
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

Rev:BD09

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



Fig.1 Forward Current Derating Curve



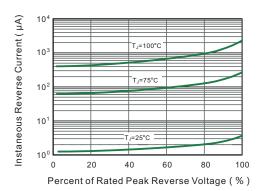


Fig.2 Typical Reverse Characteristics

Fig.3 Typical Forward Characteristic

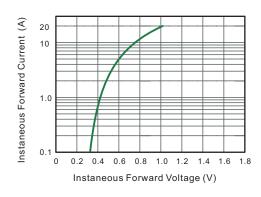


Fig.4 Typical Junction Capacitance

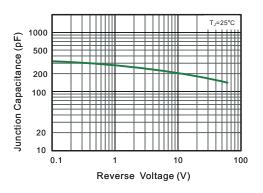


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

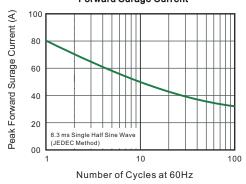
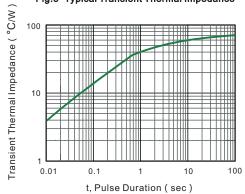
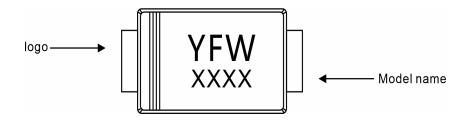


Fig.5- Typical Transient Thermal Impedance





Marking Diagram

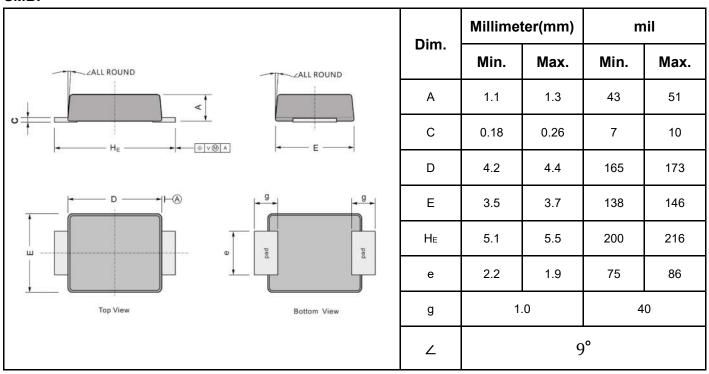


Ordering information

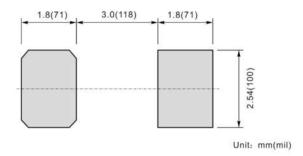
Package	Packing Description	Packing Quantity
SMBF	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

SMBF



The recommended mounting pad size





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