



Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 45 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

1.Cathode 2.Anode SMBF Marking Code SSL345BF YFW SL345B

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	SSL345BF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS voltage	V _{RMS}	32	V
Maximum DC Blocking Voltage	V _{DC}	45	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	0.45	V
Maximum Instantaneous Reverse Current TA = 25°C at Rated DC Reverse Voltage TA = 100°C	I R	0.5 5	mA
Typical Junction Capacitance (1)	C _j	350	pF
Typical Thermal Resistance (2)	Reja	50	°C/W
Operating Junction Temperature Range	Tj	-55 ~ + 150	°C
Storage Temperature Range	Tstg	-55 ~ + 150	°C

1 / 4

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

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



Fig.1 Forward Current Derating Curve

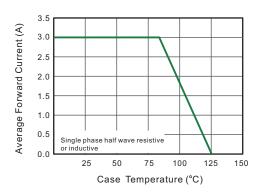


Fig.3 Typical Forward Characteristic

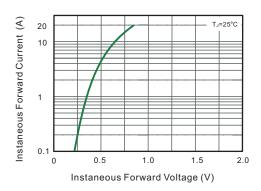


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

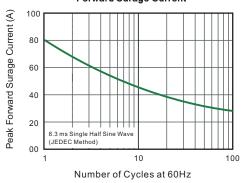


Fig.2 Typical Reverse Characteristics

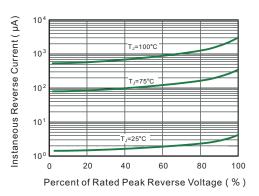


Fig.4 Typical Junction Capacitance

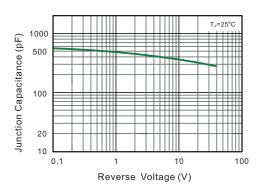
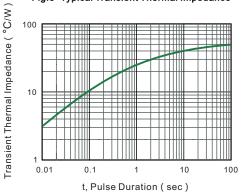
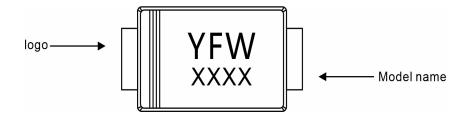


Fig.5- Typical Transient Thermal Impedance





Marking Diagram

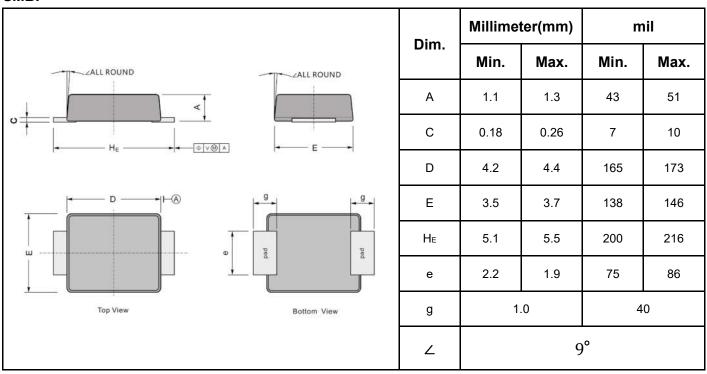


Ordering information

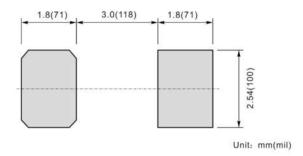
Package	Packing Description	Packing Quantity
SMBF	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

SMBF



The recommended mounting pad size





Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website https://www.yfwdiode.com, or consult YFW sales office for further assistance.