

1.2A SURFACE MOUNT GLASS PASSIVATED BRIDGE

RECTIFIER Reverse Voltage - 100 to 1000 V

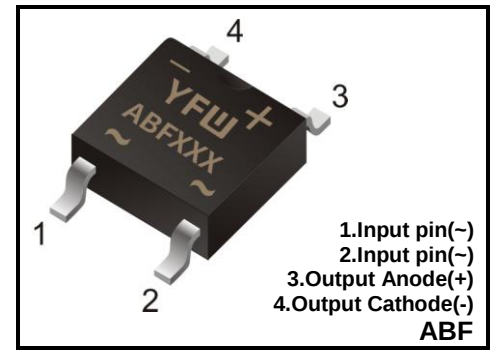
Forward Current – 1.2A

FEATURES

- ♦Fast reverse recovery time
- ♦Designed for Surface Mount Application
- ♦Glass Passivated Chip Junction
- ♦Low power loss, high efficiency
- ♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ♦Case: ABF Terminals: Solderable per MIL-STD-750, Method 2026
- ♦Approx. Weight: 82mg / 0.0029oz



Type number	Marking code
ABF1	ABF1
ABF2	ABF2
ABF4	ABF4
ABF6	ABF6
ABF8	ABF8
ABF10	ABF10

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	ABF1	ABF2	ABF4	ABF6	ABF8	ABF10	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_c = 125^\circ C$	I_o	1.2						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50						A
Forward Voltage per element at 1.0A	V_F	0.95						V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R	5.0 50						μA
Typical Junction Capacitance ^(Note1)	C_j	13						pF
Typical Thermal Resistance ^(Note3)	$R_{\theta JA}$ $R_{\theta JC}$	75 20						$^\circ C/W$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						$^\circ C$

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

(2) Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Ratings And Characteristic Curves

Fig.1 Average Rectified Output Current Derating Curve

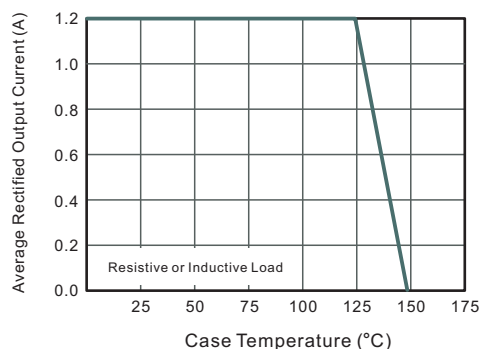


Fig.2 Typical Reverse Characteristics

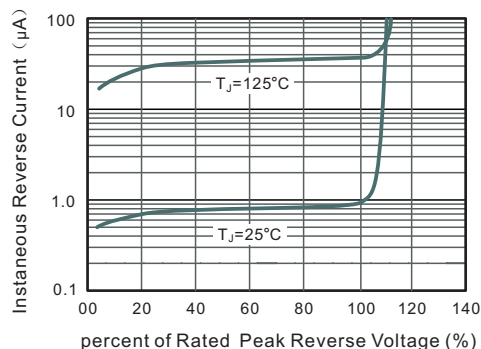


Fig.3 Typical Instantaneous Forward Characteristics

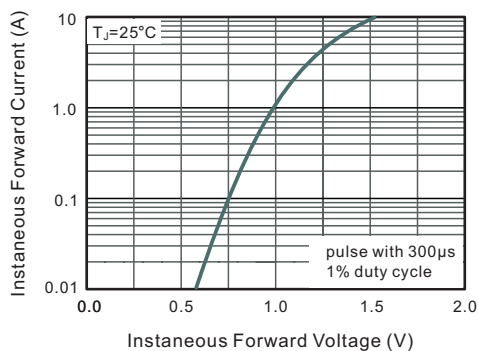


Fig.4 Typical Junction Capacitance

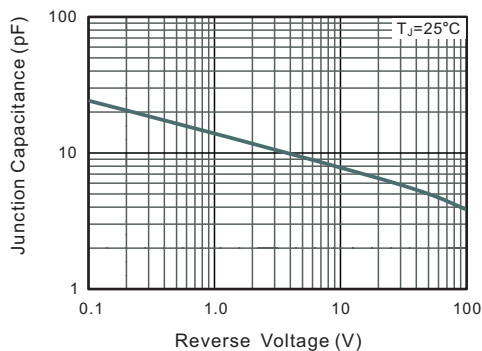
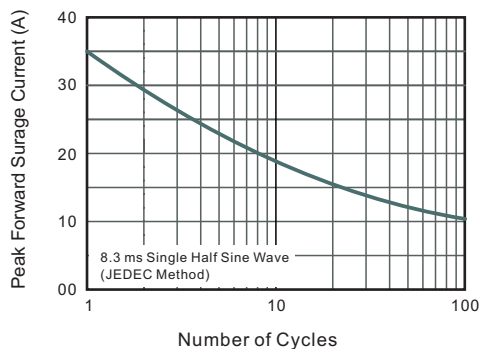
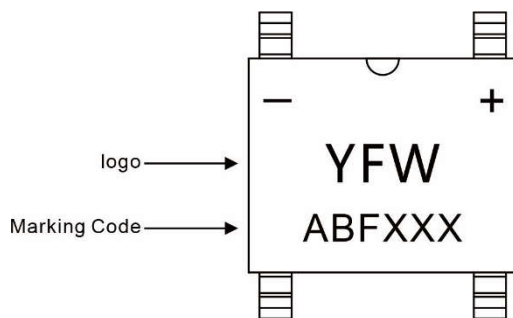


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking Diagram



Ordering information

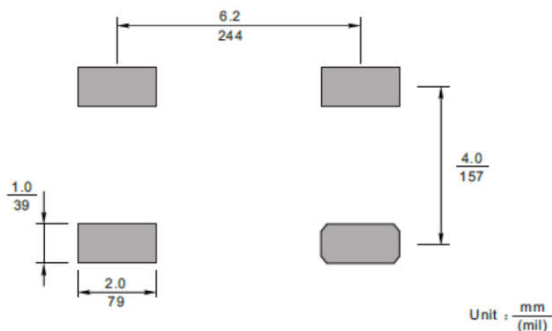
Package	Packing Description	Packing Quantity
ABF	Tape/Reel, 13" reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

ABF

Dim.	Millimeter(mm)		(mil)	
	Min.	Max.	Min.	Max.
A	1.0	1.2	39	47
C	0.15	0.22	5.9	8.7
D	4.9	5.2	193	205
E	4.2	4.5	166	177
HE	6.0	6.4	236	252
d	3.8	4.2	150	165
e	0.5	0.7	20	28
L	0.95		37	
L1	0.6		24	
a	0.2		8	
∠	7°			

The recommended mounting pad size



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