

**1.2A SURFACE MOUNT GLASS PASSIVATED BRIDGE**

**RECTIFIER Reverse Voltage - 100 to 1000 V**

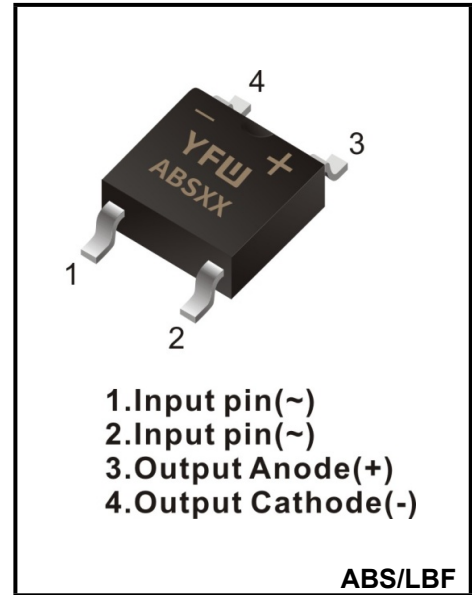
**Forward Current - 1.2A**

**FEATURES**

- ◆High current capability
- ◆Low forward voltage drop
- ◆Glass Passivated Chip Junction
- ◆Low power loss, high efficiency
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- ◆Case: ABS/LBF
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Approx. Weight: 88mg / 0.0031oz



**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 %.

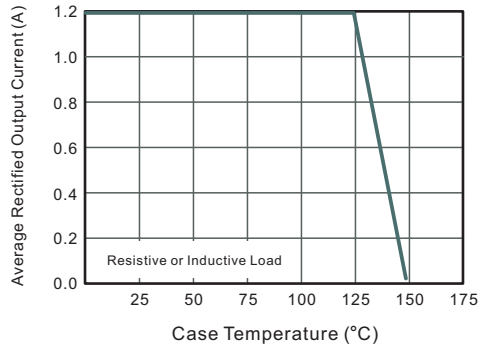
Parameter	Symbols	ABS1-50	ABS2-50	ABS4-50	ABS6-50	ABS8-50	ABS10-50	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current 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)	$I_{FSM}$	40						A
Forward Voltage per element @ $I_F = 1.2A$	$V_F$	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^\circ C$ @ $T_A = 100^\circ C$ @ $T_A = 125^\circ C$	$I_R$	5 50 100						$\mu A$
Typical Junction Capacitance (Note1)	$C_j$	13						pF
Typical Thermal Resistance (Note2)	$R_{\theta JA} / R_{\theta JC}$	72/20						$^\circ C/W$
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

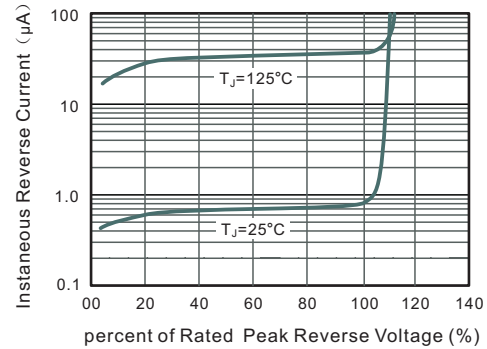
(2) Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

**Ratings And Characteristic Curves**

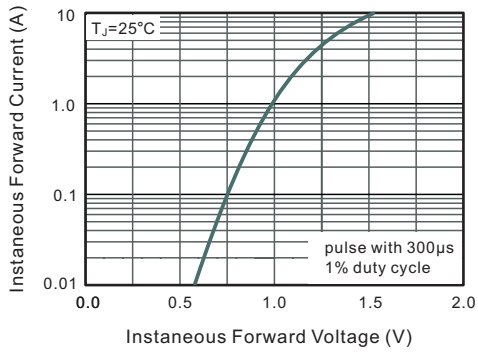
**Fig.1 Average Rectified Output Current Derating Curve**



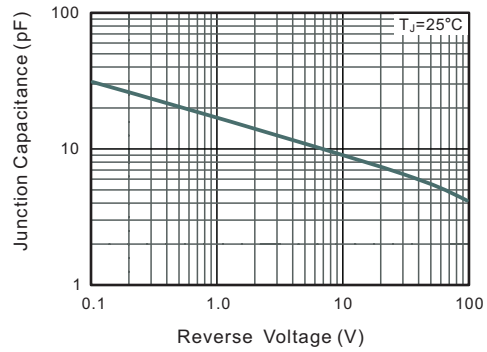
**Fig.2 Typical Reverse Characteristics**



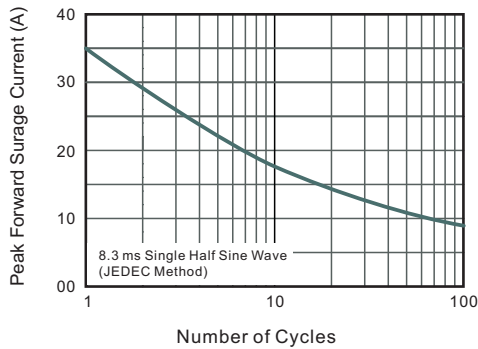
**Fig.3 Typical Instantaneous Forward Characteristics**



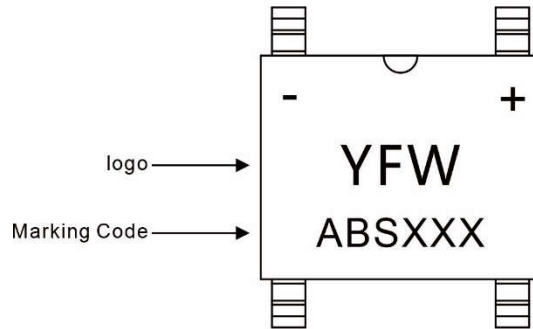
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Marking Diagram**



**Ordering information**

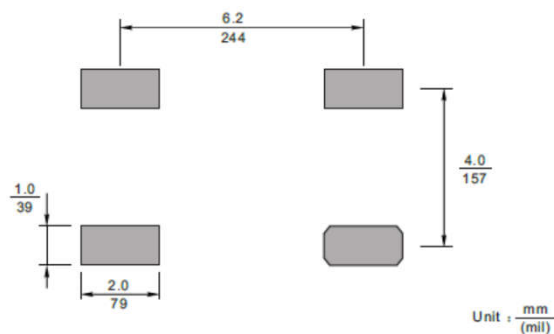
Package	Packing Description	Packing Quantity
ABS(LBF)	Tape/Reel, 13" reel	5000PCS/Reel 50000PCS/Carton

**Package Dimensions**

**ABS(LBF)**

Dim.	Millimeter(mm)		(mil)	
	Min.	Max.	Min.	Max.
A	1.3	1.5	51	59
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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