

2.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE

RECTIFIER Reverse Voltage - 100 to 1000 V

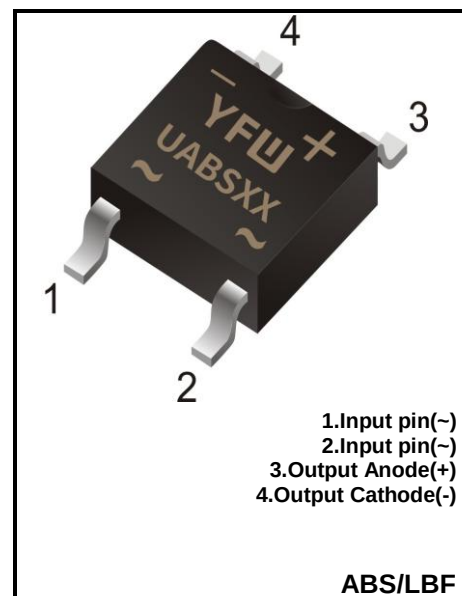
Forward Current – 2.0A

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: 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.

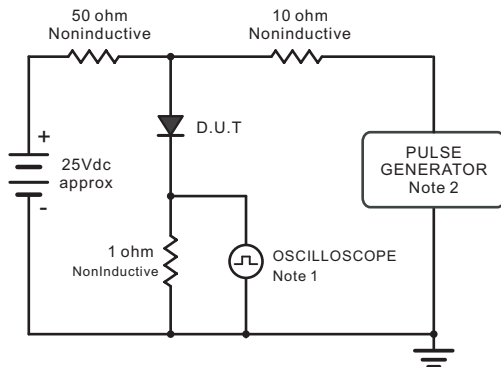
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	UABS201	UABS202	UABS204	UABS206	UABS208	UABS210	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 °C	I _o	2.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I _{FSM}	60						A
Forward Voltage per element at 2.0A	V _F	1.0		1.3		1.5		V
Maximum DC Reverse Current @T _A =25°C at Rated DC Blocking Voltage @T _A =125°C	I _R	5.0 100						μA
Typical Junction Capacitance ^(Note1)	C _j	30						pF
Maximum Reverse Recovery Time ^(Note2)	T _{RR}	50			75			nS
Typical Thermal Resistance ^(Note3)	R _{θJA} R _{θJC}	65 16						°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150						°C

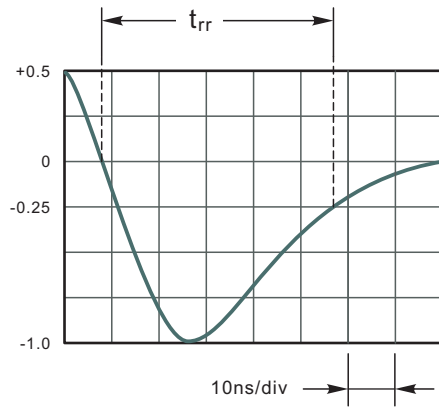
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max.
Input Impedance = 1megohm, 22pF.
2. Rise Time = 10ns, max.
Source Impedance = 50 ohms.



Set time Base for 10ns/div

Fig.2 Maximum Average Forward Current Rating

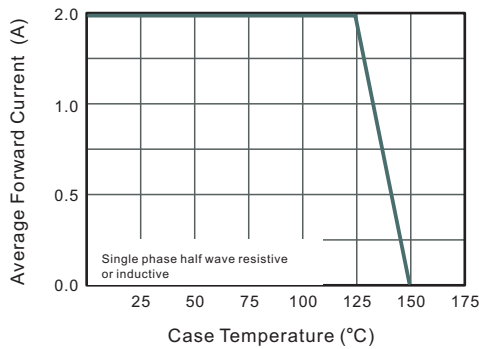


Fig.3 Typical Reverse Characteristics

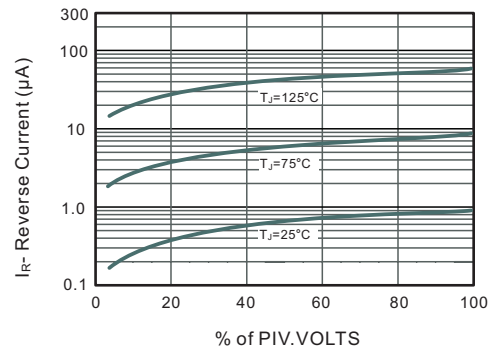


Fig.3 Typical Instantaneous Forward Characteristics

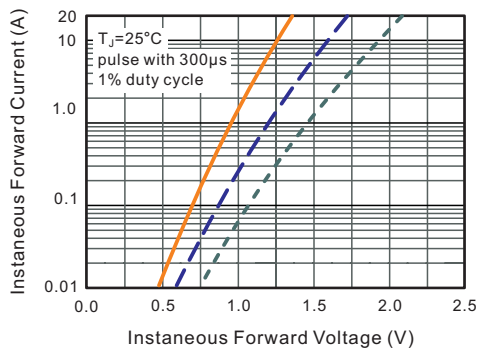
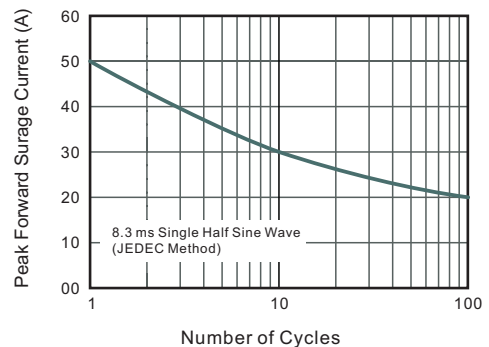
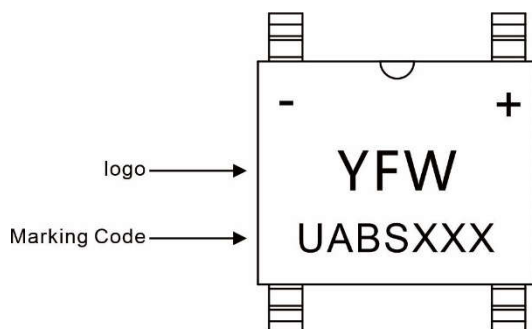


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking Diagram



Ordering information

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

Package Dimensions

ABS(LBF)

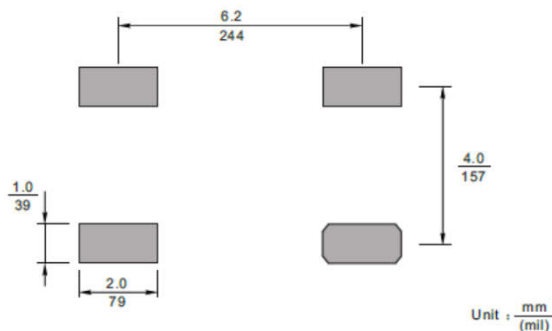
Side view of a component. Dimensions shown: A (top thickness), C (bottom thickness), L (left lead), L1 (right lead), and HE (total length). A note indicates "ALL ROUND" for the top corners.

Side view of a component. Dimensions shown: d (width) and C (bottom thickness). A note indicates "ALL ROUND" for the top corners.

Top view of a component. Dimensions shown: E (width), D (height), and Ø (hole diameter).

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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