

2.0A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

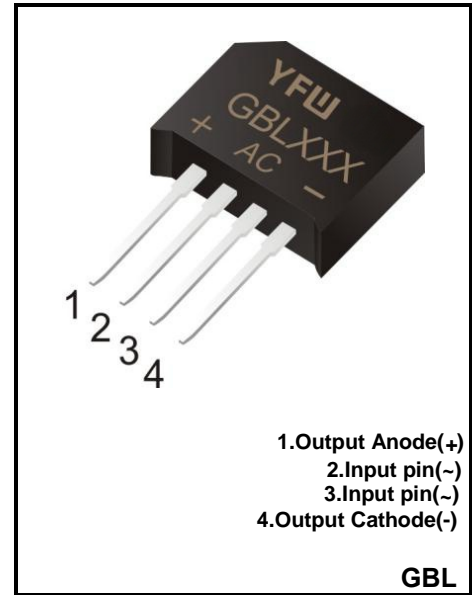
Forward Current – 2.0A

FEATURES

- ◆ Glass passivated chip
- ◆ Low Reverse Leakage Current
- ◆ High surge current capability
- ◆ Case to Terminal Isolation Voltage 2500V
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆ Case: GBL
- ◆ Terminals: Solderable per MIL-STD-202, Method 208
- ◆ Approx. Weight: 2.15g / 0.076oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	GBL201	GBL202	GBL204	GBL206	GBL208	GBL210	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 @ $T_a = 85^{\circ}C$	$I_{(AV)}$	2.0						A	
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	80						A	
Forward Voltage per element @ $I_F = 2.0A$	V_F	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_a = 25^{\circ}C$	I_R						5	μA
	$T_a = 125^{\circ}C$								
Rating for fusing ($t < 8.3ms$)	I^2t	127						A ² S	
Rms isolation voltage from case to leads	V_{isol}	2500						V	
Maximum thermal resistance per leg	$R_{\theta JC}$	4.2						$^{\circ}C/W$	
Operating Temperature Range	T_J	-55 ~ +150						$^{\circ}C$	
Storage Temperature Range	T_{stg}	-55 ~ +150						$^{\circ}C$	

(1) Junction to case with heatsink

(2) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw .

Ratings And Characteristic Curves

FIG.1 #FORWARD CURRENT DERATING CURVE

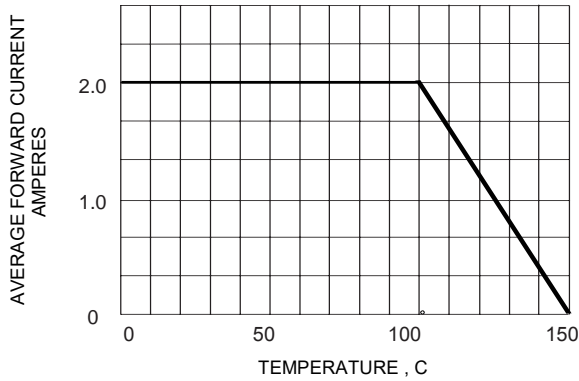


FIG.2 #MAXIMUM NON-REPETITIVE SURGE CURRENT

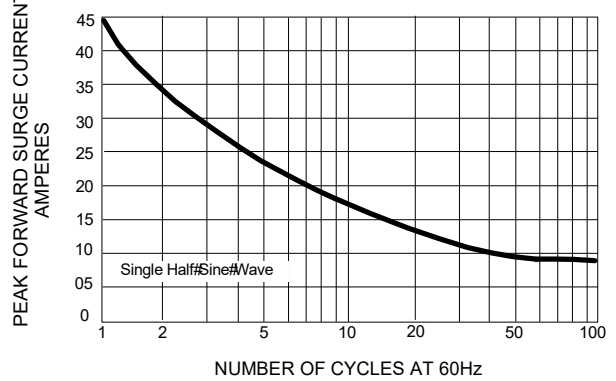


FIG.3 #TYPICAL JUNCTION CAPACITANCE

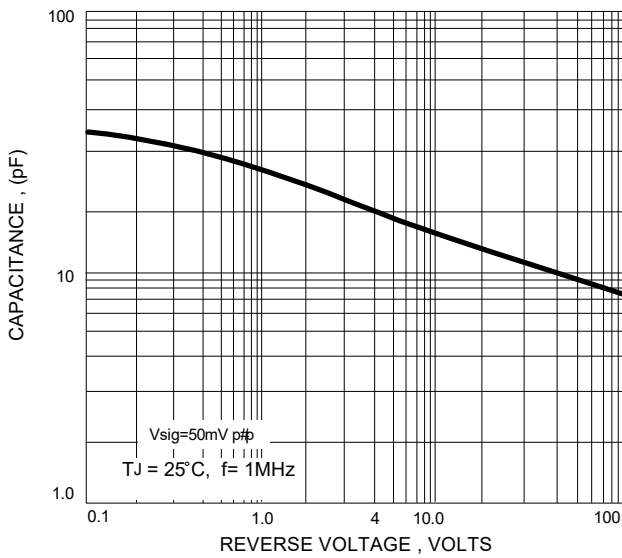


FIG.4 #TYPICAL FORWARD CHARACTERISTICS

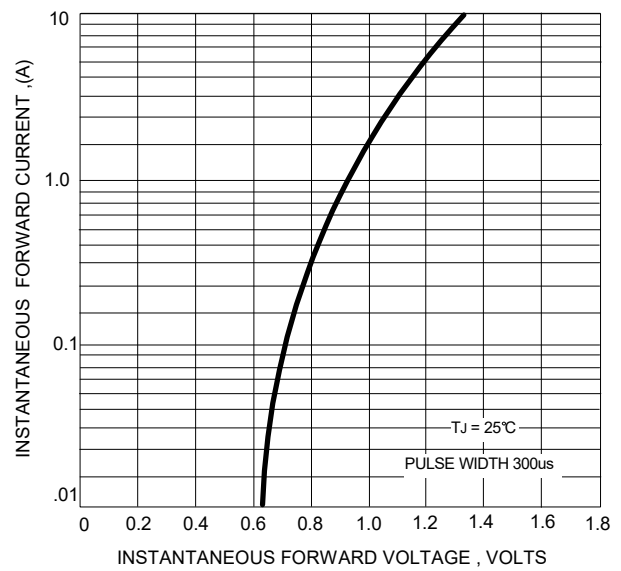
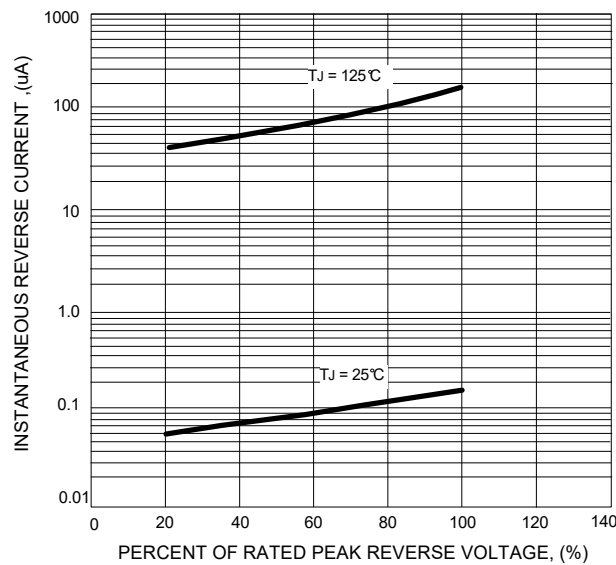
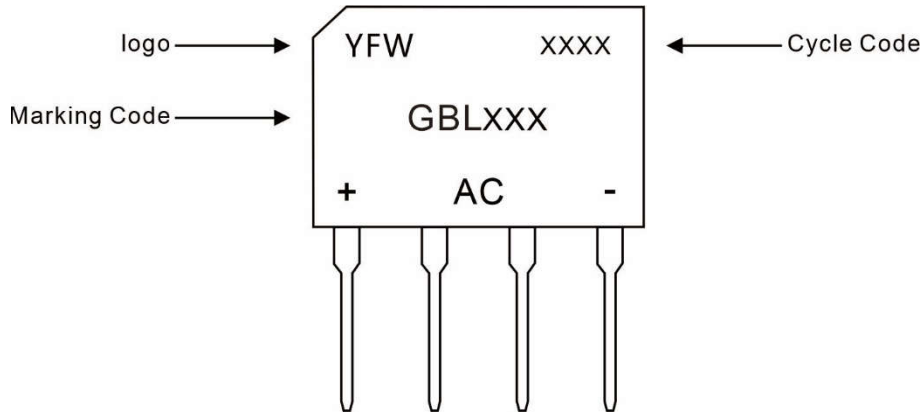


FIG.5 #TYPICAL REVERSE CHARACTERISTICS



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
GBL	bulk	500PCS/Box 5000PCS/Carton

Package Dimensions

GBL

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	19.2	21.2	0.756	0.835
B	1.2	1.8	0.0472	0.0709
C	1.0	1.2	0.0394	0.0472
D	Typ:3.0		Typ:0.118	
E	4.9	5.1	0.193	0.201
F	10.5	11.5	0.413	0.453
G	2.0	3.0	0.079	0.118
H	13.0	15.0	0.512	0.591
I	3.0	4.0	0.118	0.157
J	0.9	1.1	0.035	0.043
K	0.4	0.6	0.016	0.024

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