

4.0A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

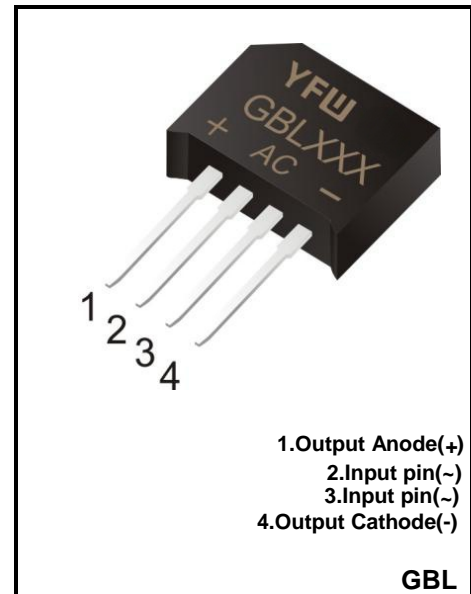
Forward Current – 4.0A

FEATURES

- ◆ Surge overload rating - 125 amperes peak
- ◆ Ideal for printed circuit board
- ◆ Glass Passivated Chip Junction
- ◆ Mounting position: Any
- ◆ 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	GBL401	GBL402	GBL404	GBL406	GBL408	GBL410	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	$I_{(AV)}$	4.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	125						A
Forward Voltage per element @ $I_F = 4.0A$ and 25°C	V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10.0						μA
Maximum Reverse Current at Rated DC Blocking Voltage @ $T_A = 150^\circ C$	I_R	1.0						mA
Operating Temperature Range	T_J	-55 ~ +150						°C
Storage Temperature Range	T_{stg}	-55 ~ +150						°C

(1) Mounting conditions, 0.5" lead length maximum.

Ratings And Characteristic Curves

FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

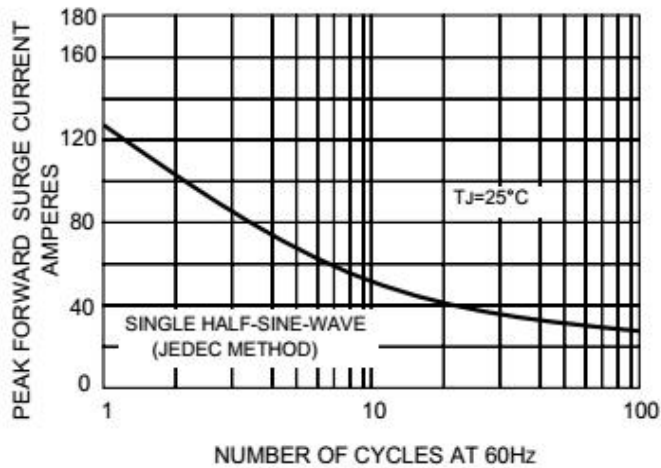


FIG.2-FORWARD DERATING CURRENT

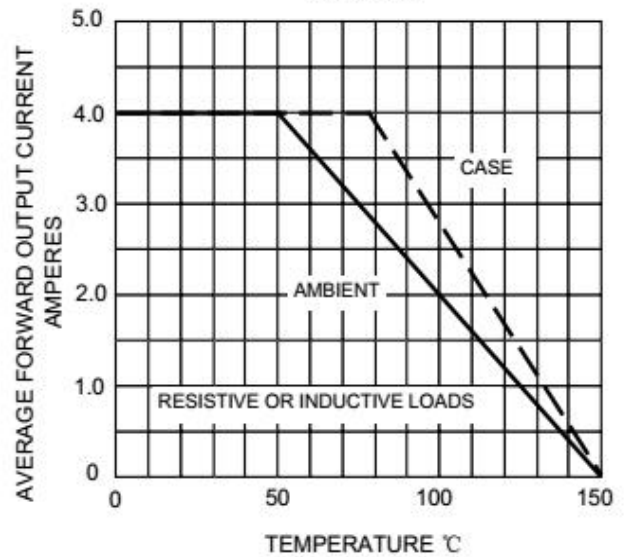


FIG.3-TYPICAL FORWARD CHARACTERISTICS

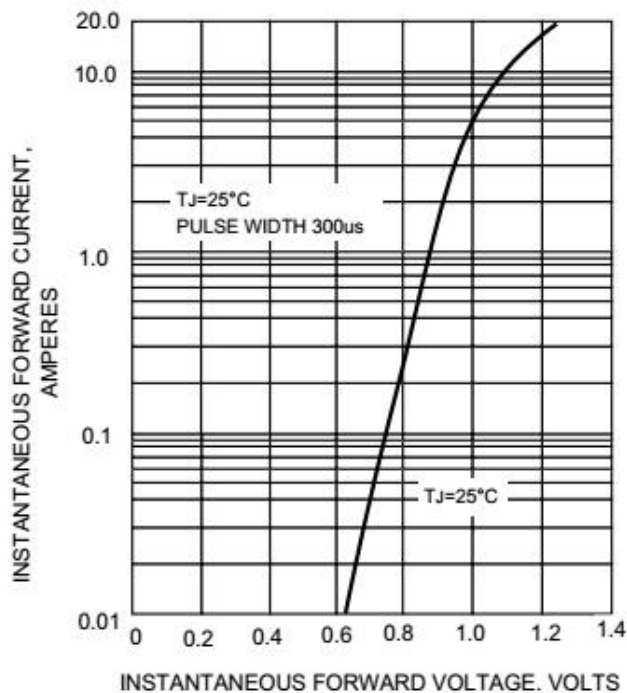
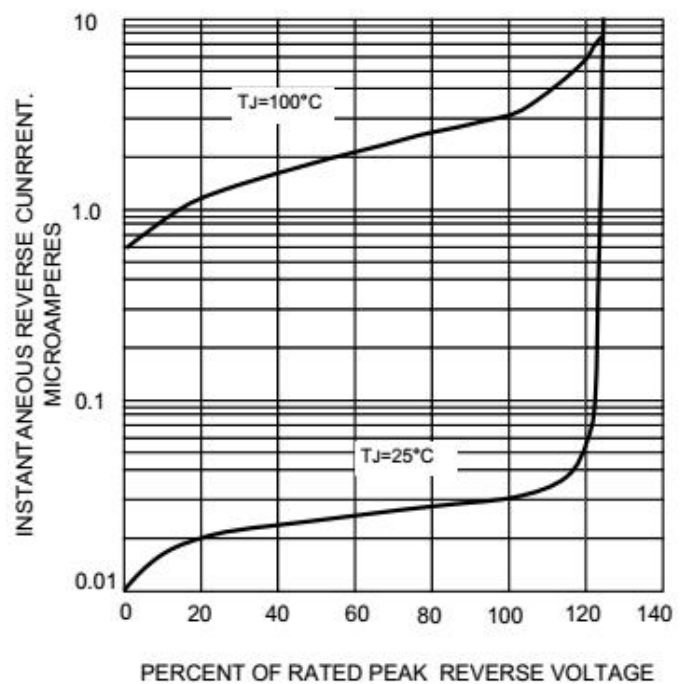
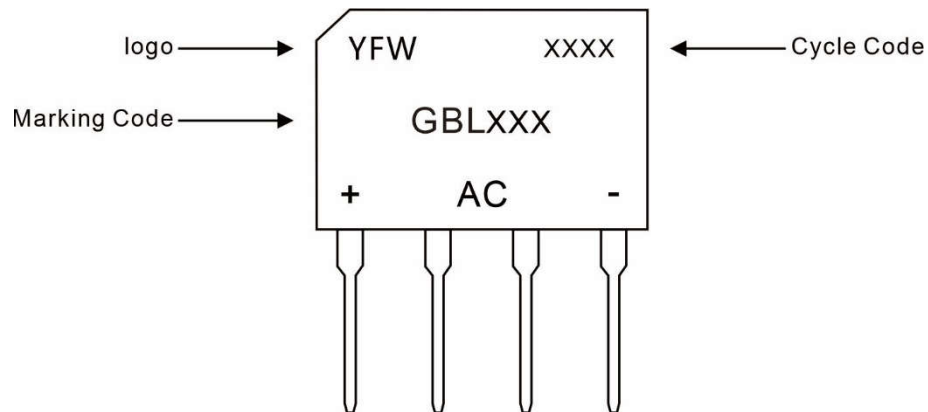


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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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