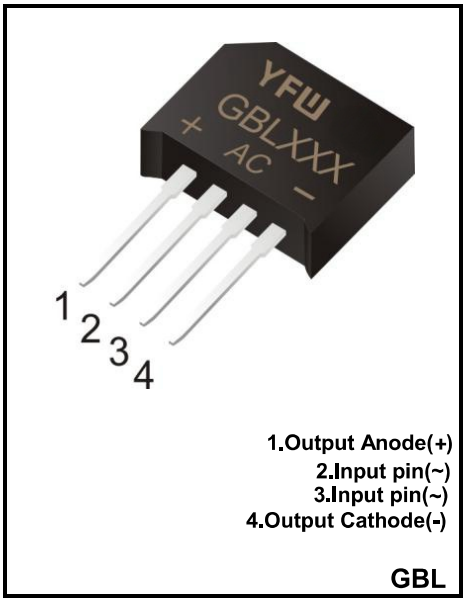
8.0A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 V

Forward Current – 8.0A



1.Output Anode(+)
2.Input pin(~)
3.Input pin(~)
4.Output Cathode(-)

GBL

FEATURES

- Glass passivated chip
- Low Reverse Leakage Current
- High surge current capability
- Case to Terminal Isolation Voltage 2500V

MECHANICAL DATA

- Case: GBL
- Marking / Polarity: Marked on Body
- Weight: About 2.2 grams

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	GBL8005	GBL801	GBL802	GBL804	GBL806	GBL808	GBL810	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Forward Output Rectified Current@Ta=85℃	$I_{F(AV)}$	8							A
Forward Voltage Per Leg @IFM =8.0A	V_F	1.1							V
Peak Forward Surge Current 8.3ms Single Half Sine- wave superimposed on rated load	I_{FSM}	200							A
Maximum DC Forward Voltage @Tj=25℃ At rated DC blocking voltage @ Tj=125℃	I_R	5.0 500.0							μA
T^2t Rating for Fusing (t< 8.3ms)	I^2t	166							A^2S
Rms isolation voltage from case to leads	Visol	2500							V
Maximum thermal resistance per leg	$R_{\theta JC}$	4.2							°C/W
Operating Temperature Range	T_J	-55 ~ +150							°C
Storage Temperature Range	T_{stg}	-55 ~ +150							°C

Note:
(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- DERATING CURVE OUTPUT RECTIFIED CURRENT

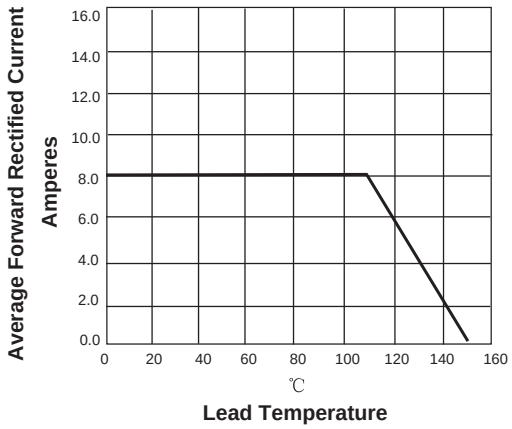


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

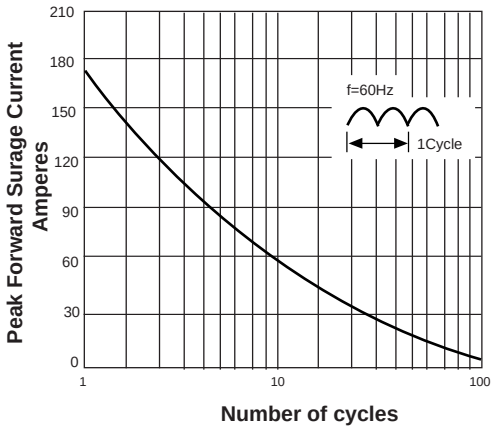


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

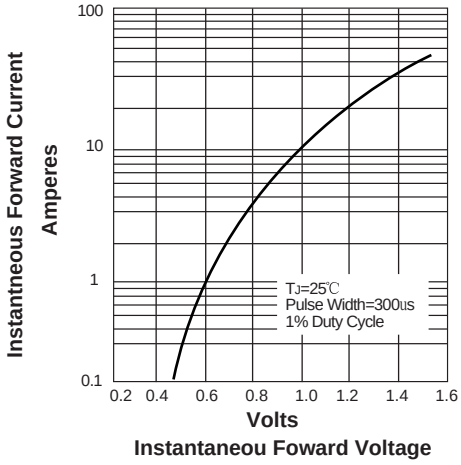
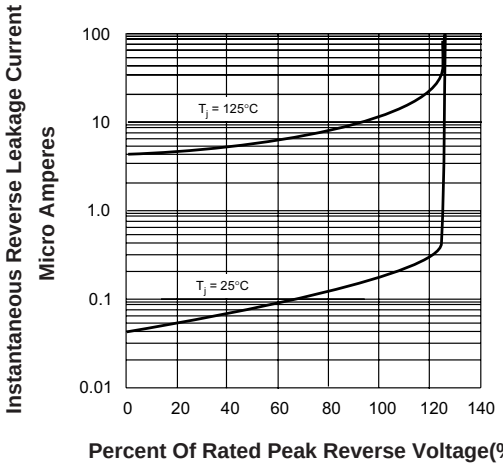
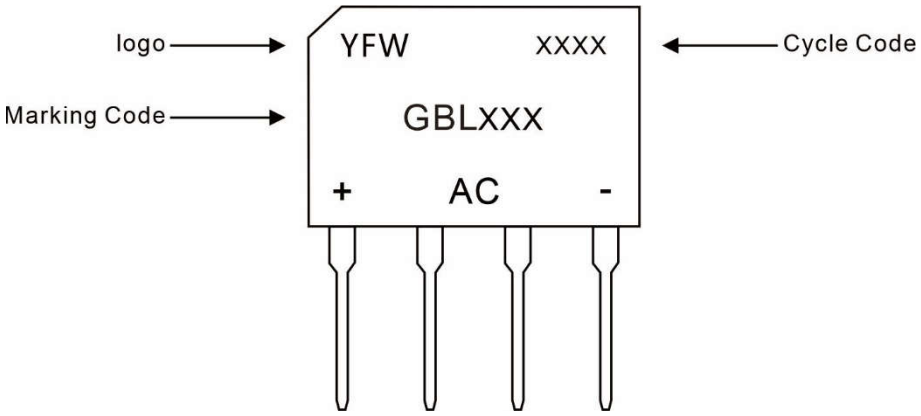


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram

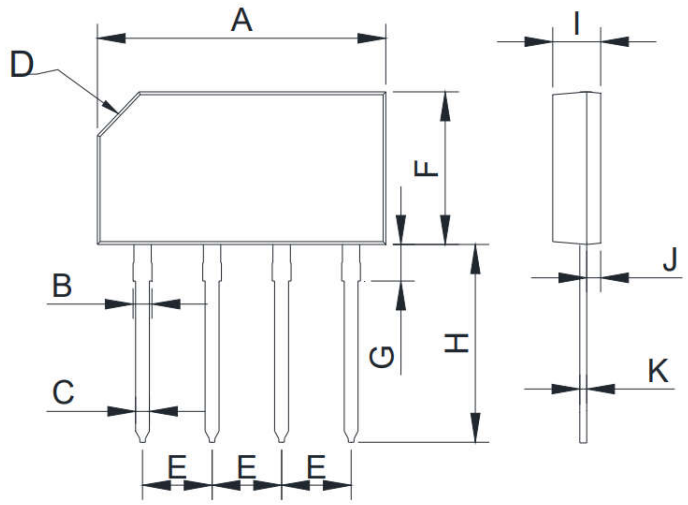


Ordering information

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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