

2.0A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

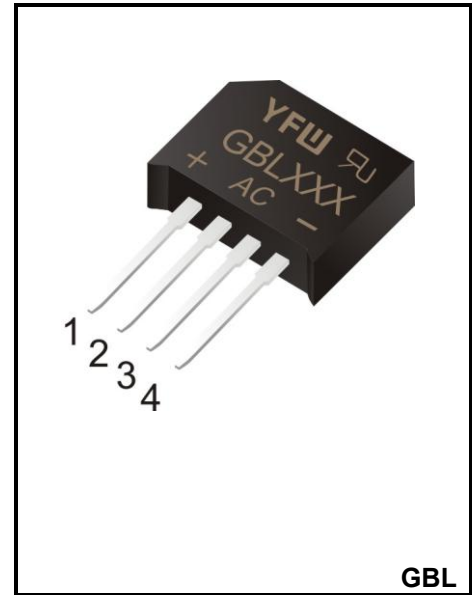
Forward Current – 2.0A

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 @Ta = 85°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 @If =2.0A	V_F	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta = 25°C	I_R						5	μA
	Ta = 125°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	$R_{θJC}$	4.2						°C/W	
Operating Temperature Range	T_J	-55 ~ +150						°C	
Storage Temperature Range	T_{stg}	-55 ~ +150						°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 .

FIG.1 #FORWARD CURRENT DERATING CURVE

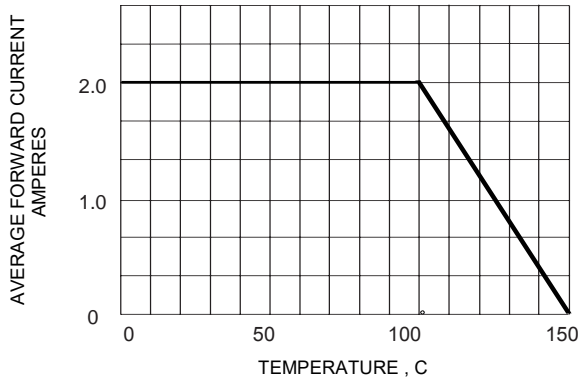


FIG.2 #MAXIMUM NON-REPETITIVE SURGE CURRENT

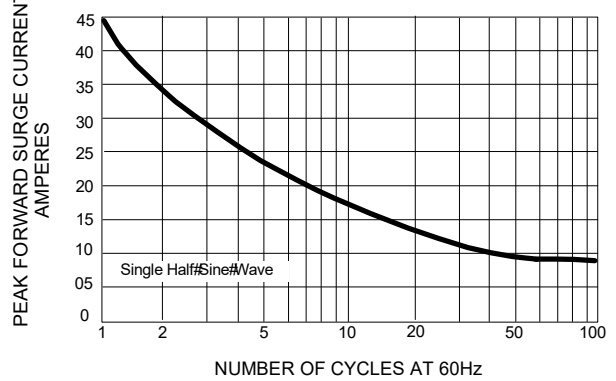


FIG.3 #TYPICAL JUNCTION CAPACITANCE

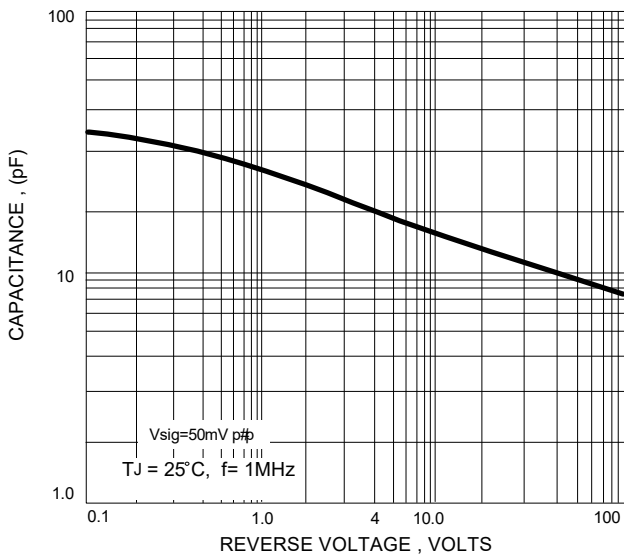


FIG.4 #TYPICAL FORWARD CHARACTERISTICS

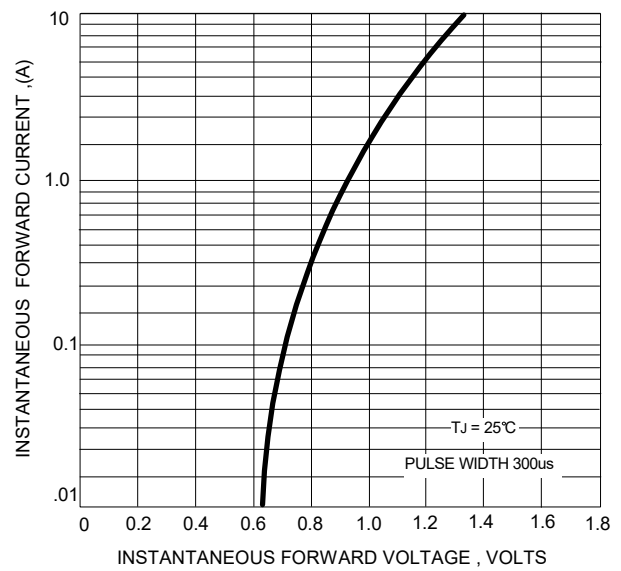
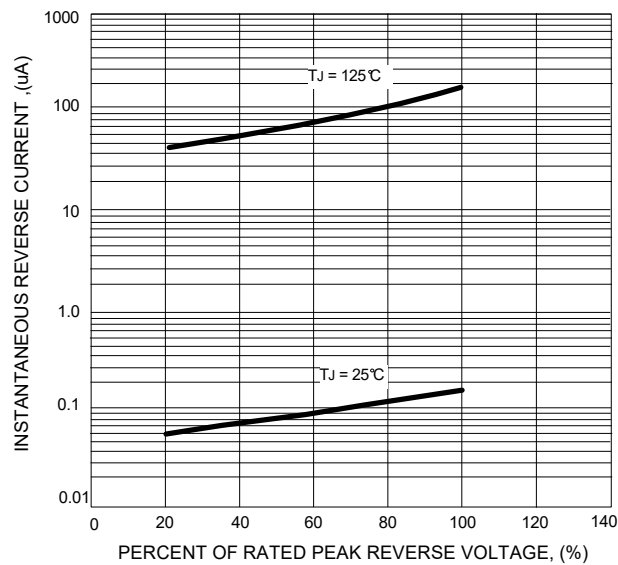
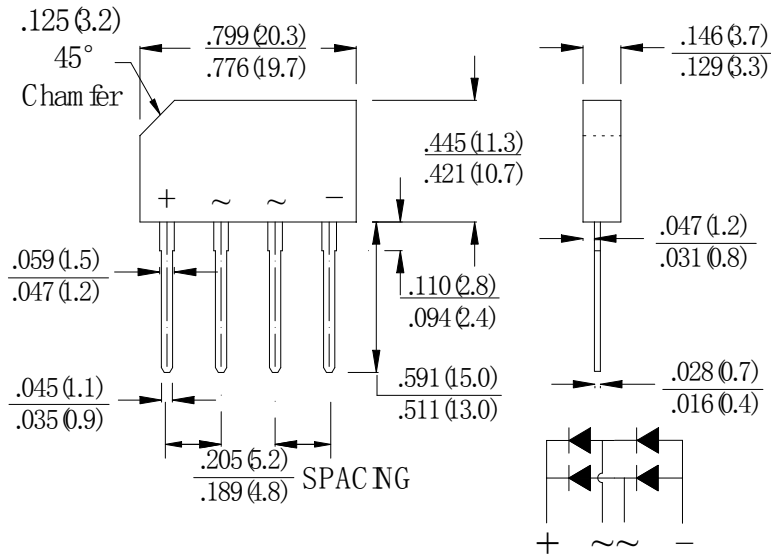


FIG.5 #TYPICAL REVERSE CHARACTERISTICS



Package Outline

GBL



Dimensions in inches and millimeters

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
GBL	BOX	500	EIA-481-1