

# GBU8005 THRU GBU810

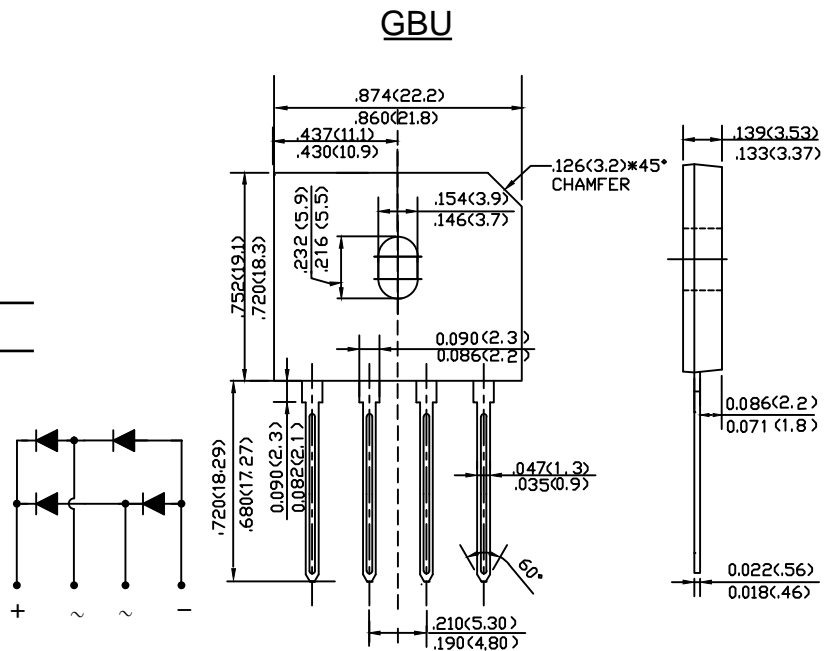
SINGLE PHASE 8.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

## Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

## Mechanical Data

- Case: G B U , molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



dimensions in inches and (millimeters)

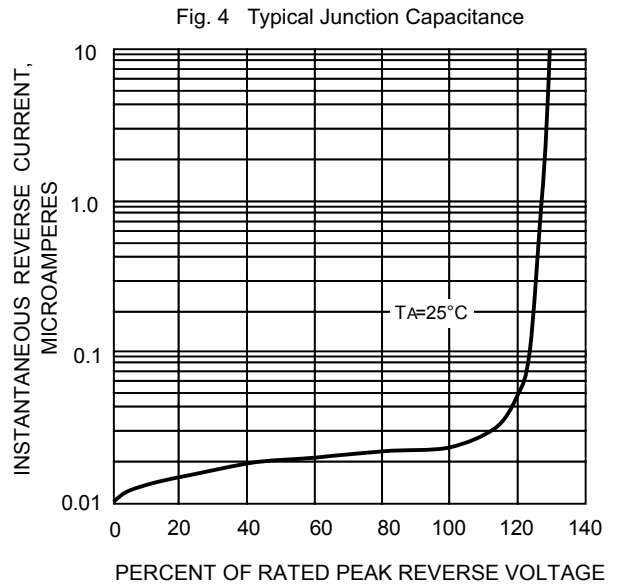
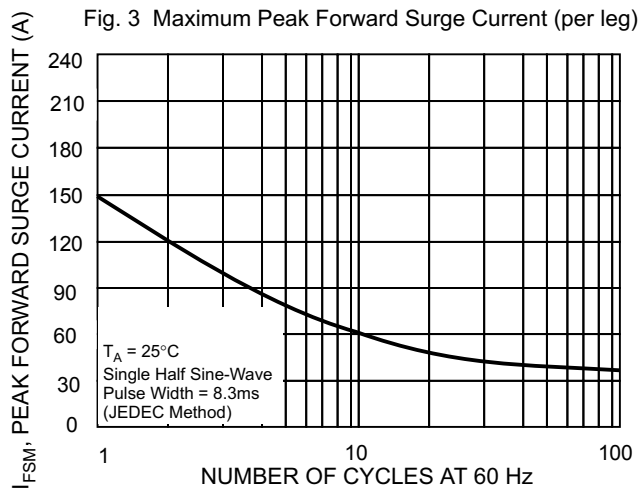
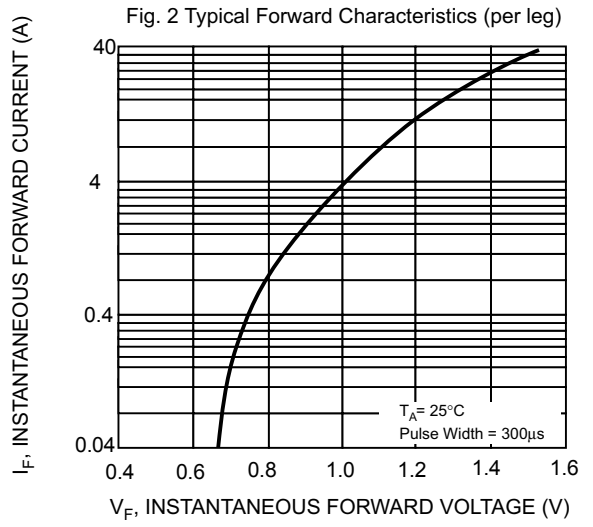
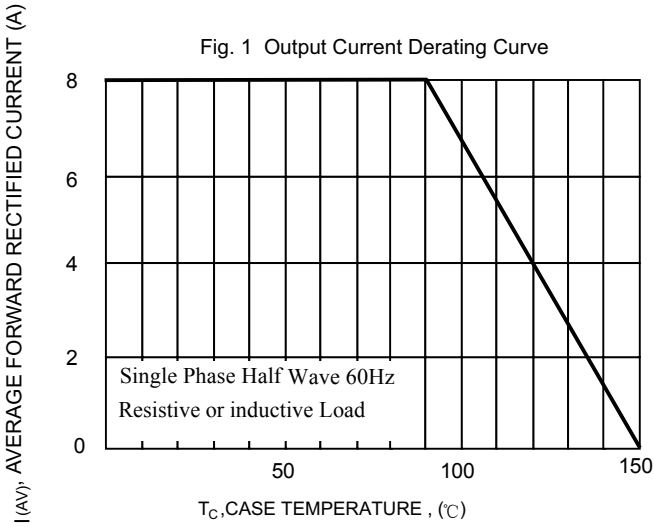
## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
 Single Phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$								
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_{DC}$								
RMS Reverse Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=90°C	$I_{F(AV)}$	8.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150							A
Forward Voltage per element @IF=4A @IF=8A	$V_{FM}$	1.0 1.1							V
Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	$I_R$	5.0 500							uA
I <sup>2</sup> t Rating for fusing (t <8.3ms)	I <sup>2</sup> t	93							A <sup>2</sup> s
Typical Junction Capacitance per leg (Note 2)	$C_J$	75							pF
Typical Thermal Resistance per leg (Note 3)	$R_{\theta JA}$	31							°C/W
	$R_{\theta JL}$	10.9							
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55to+150							°C

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.  
 3. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

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