# **GBU8005 THRU GBU810**

## **Glass Passivated Bridge Rectifiers**

## Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes

#### **Features**

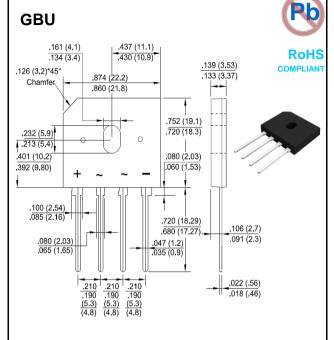
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

#### **Mechanical Data**

- Polarity: Symbol marked on body
- Mounting position: Any
- AEC-Q101 qualified

### **Applications**

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package Outline Dimensions in Inches (Millimeters)

### **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

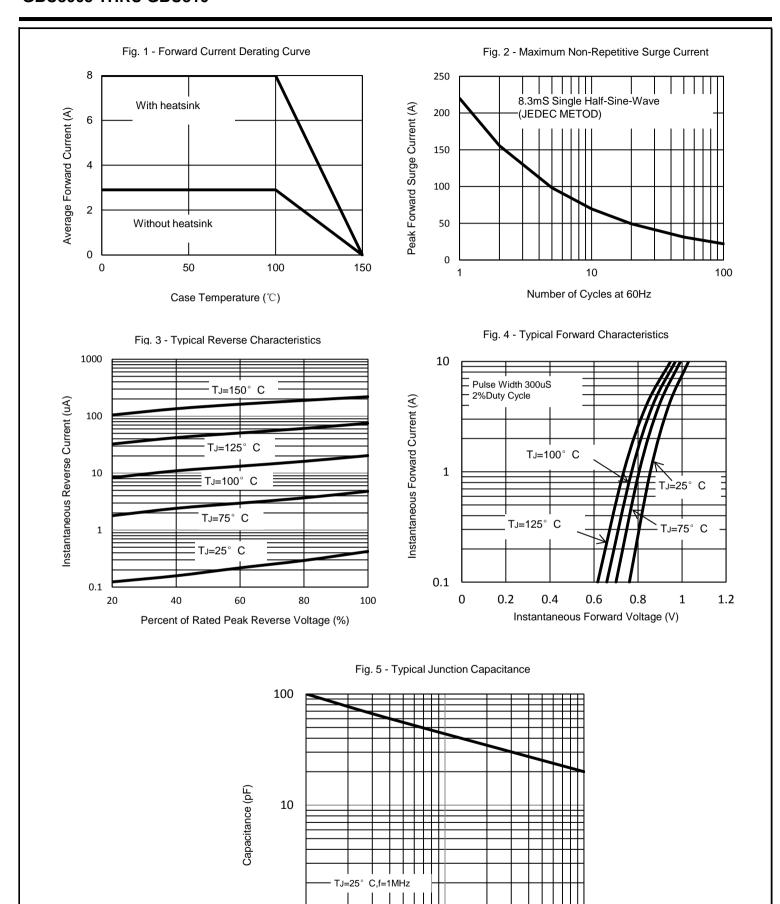
For capacitive load, derate current by 20%.

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Symbol	GBU	GBU	GBU	GBU	GBU	GBU	GBU	Unit
ĺ	8005	801	802	804	806	808	810	
VRRM	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
Lavo	8.0 2.9							А
I(AV)								
Ison	IFSM 220							А
IFSIVI								
l <sup>2</sup> t	200							A <sup>2</sup> s
VF	1.0							V
In.	5.0							
I IK	500							μA
CJ	60							pF
Reja	10							
Rejc	2.2							°C/W
Rejl	3							
TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Тѕтс	-55 to +150							$^{\circ}$
	VRRM VRMS VDC I(AV) IFSM I²t VF IR CJ Reja Rejc Rejl TJ	Symbol 8005  VRRM 50  VRMS 35  VDC 50  I(AV)  IFSM  I²t  VF  IR  CJ  Reja  Rejc  Rejl  TJ	Symbol   8005   801     VRRM   50   100     VRMS   35   70     VDC   50   100     I(AV)     IFSM   I²t     VF   IR     CJ   Reja   Rejc   Rejl     TJ	Symbol         8005         801         802           VRRM         50         100         200           VRMS         35         70         140           VDC         50         100         200           I(AV)         IFSM         IP         IP           IR         IR         IR         IP         IR         IP         IP <td>Symbol         8005         801         802         804           VRRM         50         100         200         400           VRMS         35         70         140         280           VDC         50         100         200         400           B.0         2.9           IFSM         220           IP         200         7           VF         1.0         5.0           IR         500         500           CJ         60         60           RBJA         10         2.2           RBJC         2.2         3           TJ         -55 to +15</td> <td>Symbol         8005         801         802         804         806           VRRM         50         100         200         400         600           VRMS         35         70         140         280         420           VDC         50         100         200         400         600           I(AV)         2.9         2.9           IFSM         220         2.9           IP         200         2.9           IR         5.0         500           CJ         60         60           RBJA         10         2.2           RBJC         2.2         2.2           RBJL         3         3           TJ         -55 to +150</td> <td>Symbol         8005         801         802         804         806         808           VRRM         50         100         200         400         600         800           VRMS         35         70         140         280         420         560           VDC         50         100         200         400         600         800           I(AV)         2.9         8.0         2.9         2.9         2.9         1.0</td> <td>Symbol         8005         801         802         804         806         808         810           VRRM         50         100         200         400         600         800         1000           VRMS         35         70         140         280         420         560         700           VDC         50         100         200         400         600         800         1000           I(AV)         2.9         8.0         2.9         8.0         2.9         8.0</td>	Symbol         8005         801         802         804           VRRM         50         100         200         400           VRMS         35         70         140         280           VDC         50         100         200         400           B.0         2.9           IFSM         220           IP         200         7           VF         1.0         5.0           IR         500         500           CJ         60         60           RBJA         10         2.2           RBJC         2.2         3           TJ         -55 to +15	Symbol         8005         801         802         804         806           VRRM         50         100         200         400         600           VRMS         35         70         140         280         420           VDC         50         100         200         400         600           I(AV)         2.9         2.9           IFSM         220         2.9           IP         200         2.9           IR         5.0         500           CJ         60         60           RBJA         10         2.2           RBJC         2.2         2.2           RBJL         3         3           TJ         -55 to +150	Symbol         8005         801         802         804         806         808           VRRM         50         100         200         400         600         800           VRMS         35         70         140         280         420         560           VDC         50         100         200         400         600         800           I(AV)         2.9         8.0         2.9         2.9         2.9         1.0	Symbol         8005         801         802         804         806         808         810           VRRM         50         100         200         400         600         800         1000           VRMS         35         70         140         280         420         560         700           VDC         50         100         200         400         600         800         1000           I(AV)         2.9         8.0         2.9         8.0         2.9         8.0

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

- 2. Device mounted on 75mm\*75mm\*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only

GBU8\*-U-00-A001 Rev. 9, 22-Apr-2019



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Reverse Voltage (V)

100

The curve above is for reference only.

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