# **GBU4005 THRU GBU410**

# **Glass Passivated Bridge Rectifiers**

# Reverse Voltage - 50 to 1000 Volts Forward Current - 4.0 Amperes

#### **Features**

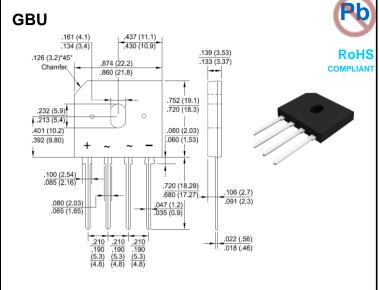
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

#### **Mechanical Data**

- Polarity: Symbol marked on body
- Mounting position: Any

### **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.

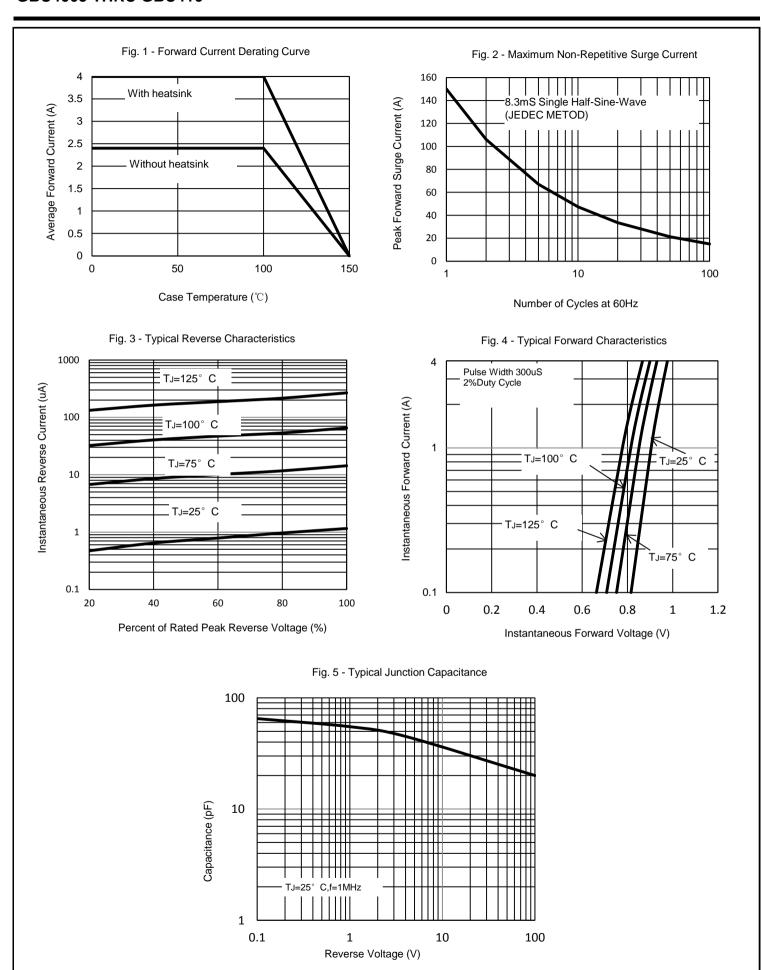
For capacitive load, derate current by 20%.

Symbol	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	Unit
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
I/AVA	I <sub>(AV)</sub> 4.0 2.4							Α
I(AV)								
IEGM	150							А
IFSIVI								
l <sup>2</sup> t	93.4						A <sup>2</sup> s	
VF	0.95						V	
VF	1.05						V	
5.0							μΑ	
IK.	500							
Cı	45						pF	
RөJA	27						°C/W	
Rejc	2.2						°C/W	
Røjl	4.5						°C/W	
TJ	-55 to +150						$^{\circ}$	
Тѕтс	-55 to +150							$^{\circ}\!\mathbb{C}$
	VRRM VRMS VDC  I(AV)  IFSM  I <sup>2</sup> t  VF  VF  IR  CJ  Reja  Rejc  Rejl  TJ	VRRM 50 VRMS 35 VDC 50  I(AV)  IFSM  I <sup>2</sup> t VF  VF  IR  CJ  ReJA  ReJC  ReJL  TJ	VRRM 50 100 VRMS 35 70 VDC 50 100  I(AV)  IFSM  I <sup>2</sup> t  VF  VF  IR  CJ  Reja  Rejc  Rejl  TJ	VRRM 50 100 200  VRMS 35 70 140  VDC 50 100 200  I(AV)  IFSM  I <sup>2</sup> t  VF  VF  IR  CJ  ReJA  ReJC  ReJL  TJ	VRMM 50 100 200 400  VRMS 35 70 140 280  VDC 50 100 200 400  I(AV) 2.4  IFSM 150  I <sup>2</sup> t 93.4  VF 0.95  VF 1.05  IR 500  CJ 45  Rejic 2.2  Rejic 7J -55 to +15	VRRM         50         100         200         400         600           VRMS         35         70         140         280         420           VDC         50         100         200         400         600           I(AV)         2.4         4.0         2.4           IFSM         150         93.4         93.4           VF         0.95         0.95         0.95           VF         1.05         5.0         500           CJ         45         500         45           ReJA         27         2.2         2.2           ReJL         4.5         -55 to +150	VRRM         50         100         200         400         600         800           VRMS         35         70         140         280         420         560           VDC         50         100         200         400         600         800           I(AV)         4.0         2.4         2.4         2.4         2.4         2.4         2.4         2.4         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.2         2.5         7.5	VRM 50 100 200 400 600 800 1000  VRMS 35 70 140 280 420 560 700  VDC 50 100 200 400 600 800 1000  1(AV) 2.4  IFSM 150  I**  UF 0.95  VF 1.05  IR 500  CJ 45  Rejic 2.2  Rejic 7.5 to +150

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

- 2.Device mounted on 50mm\*50mm\*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only

The curve above is for reference only.



GBU4\*-U/B-00/99-00/01 Rev. 9, 22-Apr-2019

