GBU6005 THRU GBU610

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

Features

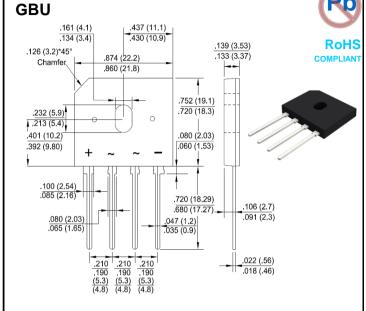
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

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.

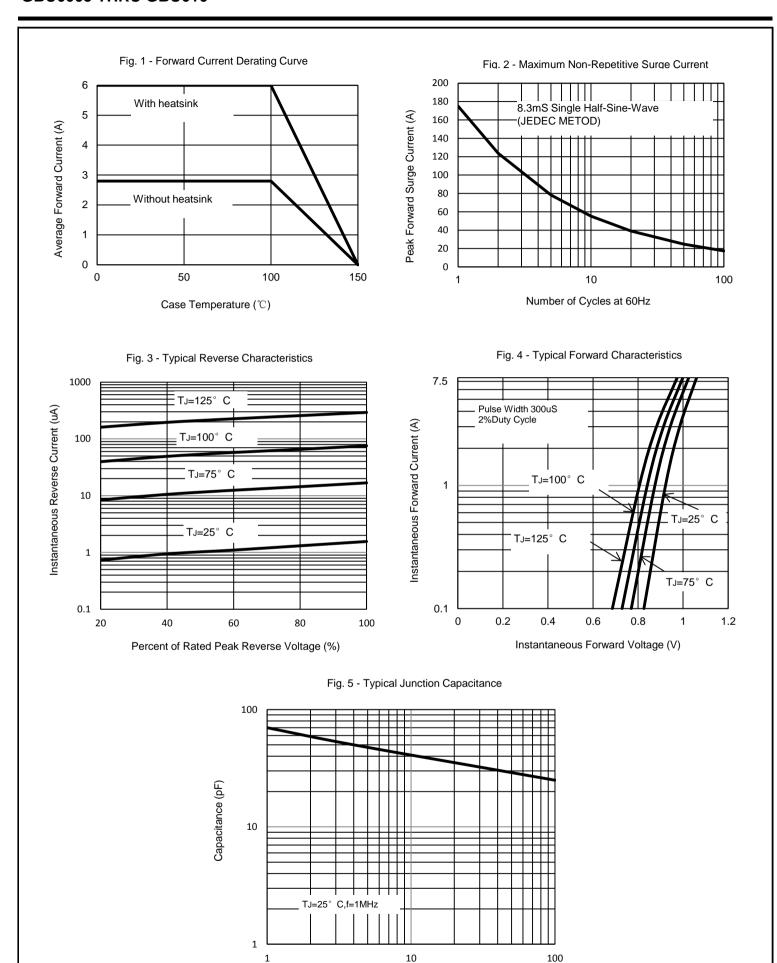
For capacitive load, derate current by 20%.

Characteristic	Symbol 符号	GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	Icaso	6.0 2.8							А
Rectified Current @ Tc=100°C (without heatsink)	I(AV)								
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	175							А
Superimposed on Rated Load (JEDEC Method)	IFSIVI								
I ² t Rating for Fusing (t<8.3mS)	l ² t	127.1						A ² s	
Peak Forward Voltage per Diode at 3A DC	VF	1.0							V
Maximum DC Reverse Current at Rated @T _J =25℃	lr	5.0 500							μA
DC Blocking Voltage per Diode @TJ=125℃	IK IK								
Typical Junction Capacitance per Diode (Note1)	Сл	50							pF
Typical Thermal Resistance to case (with heatsink (Note2))	Rejc	2							°C/W
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

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

The curve above is for reference only.



Reverse Voltage (V)

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