

GBU6005 THRU GBU610

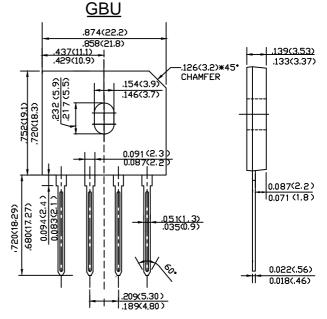
SINGLE PHASE 6.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

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: GBU, 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 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	UNITS
Peak Repetitive Reverse Voltage	Vrrm								
Working Peak Reverse Voltage	VRWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=90°C	I _{F(AV)}	6.0							Α
Non-Repetitive Peak Forward Surge Current @TJ=25°C 8.3ms Single half sine-wave superimposed @TJ=125°C on rated load (JEDEC Method)	Ігѕм	130 104							А
Non-Repetitive Peak Forward Surge @TJ=25℃ Current 1 ms Single half sine-wave @TJ=125℃ superimpose on rated load (JEDEC Method)	lгsм	260 208							Α
Forward Voltage per element @IF=3.0A @IF=6.0A	VFM	1.0 1.1							V
Peak Reverse Current $@TJ=25^{\circ}C$ At Rated DC Blocking Voltage $TJ=125^{\circ}C$	lr	5.0 200							uA
I ² t Rating for fusing (t <8.3ms)	l ² t	70.135							A ² s
Dielectric Strength	Vids	2500							V
The proposed installation torque Max torque	Tor	5.0 8.0							Kgf.cm
Typical Junction Capacitance (Note 2)	CJ	30							pF
Typical Thermal Resistance	RөJA	22							°C/W
	Rелс	3.4							1 0100
	Rejl	2.1							
Operating and Storage Temperature Range	TJ,TsTG	-55to+150							$^{\circ}\mathbb{C}$

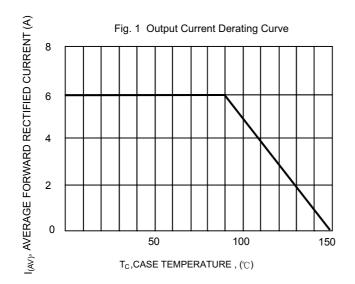
Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

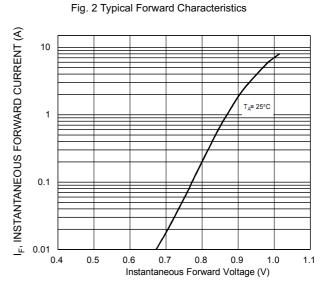
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

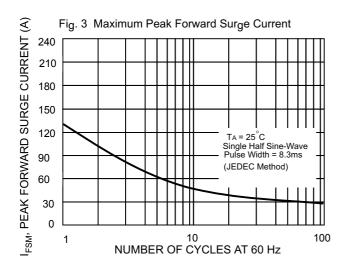
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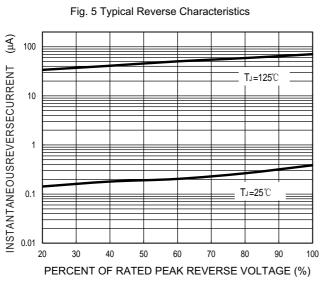


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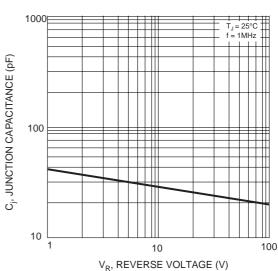


Fig. 4 Typical Junction Capacitance



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