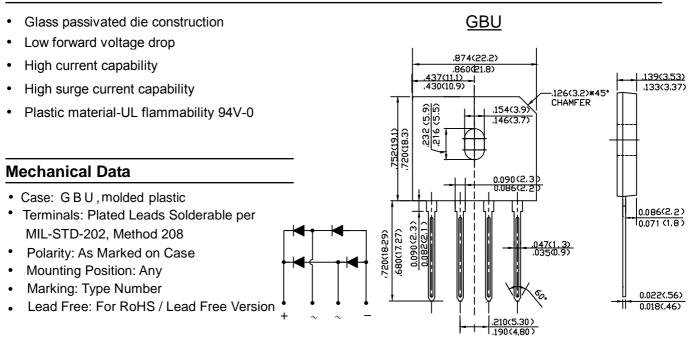


# **GBU10005 THRU GBU1010**

SINGLE PHASE 10.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

#### Features



dimensions in inches and (millimeters)

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

Rating at  $25^{\circ}$ 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 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	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	lf(av)	10.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	200						A	
Forward Voltage per element @IF=5A @IF=10A	Vfm	1.0 1.1						V	
Peak Reverse Current@T₄ =25 ℃At Rated DC Blocking Voltage@T₄ =125 ℃	lr	5.0 500							uA
I <sup>2</sup> t Rating for fusing (t <8.3ms)	l <sup>2</sup> t	166							A <sup>2</sup> s
Typical Junction Capacitance per leg(Note 2)	CJ	70							pF
Typical Thermal Resistance per leg (Note 3)	Reja	30.9							°C/W
	Rejl	7.3							
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							°C

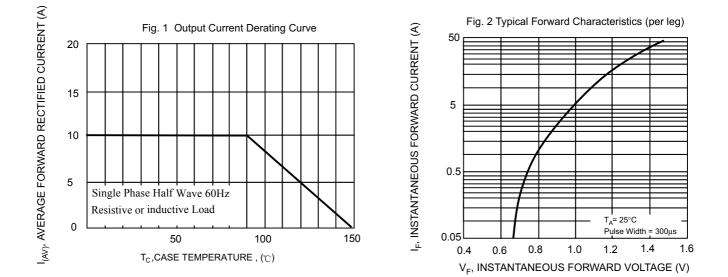
Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

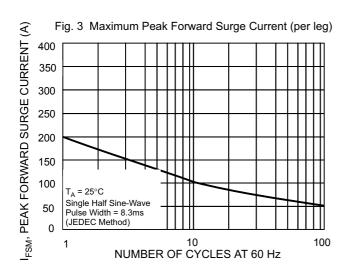
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

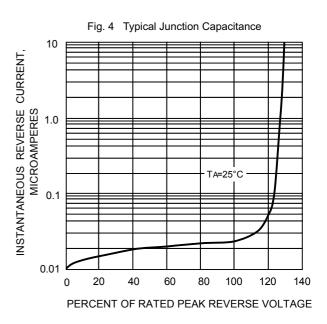
3. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.



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