## **GBU10A THRU GBU10M**

# SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V Current: 10.0A



#### **Features**

Ideal for printed circuit board

Glass passivated chip junction

High case dielectric strength

High surge overload rating

This series is UL listed under Recognized Component Index, file number E330278

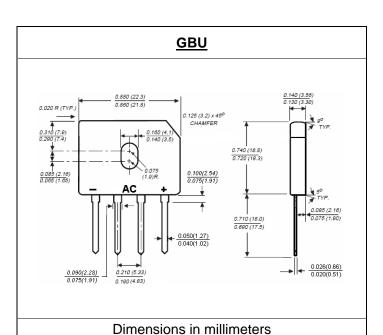
#### **Mechanical Data**

Terminal: Plated leads solderable per MIL-STD 750,

method 2026

Case: UL-94 Class V-0 recognized Flame Retardant Epoxy

Polarity: Polarity symbol marked on body



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

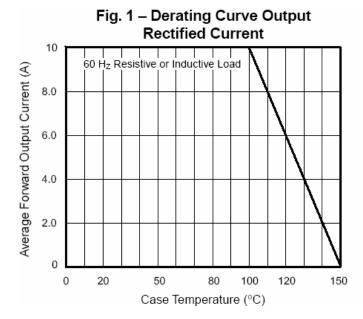
(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

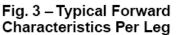
	Symbol	GBU 10A	GBU 10B	GBU 10D	GBU 10G	GBU 10J	GBU 10K	GBU 10M	units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at $Tc = 100^{\circ}C$ (Note	l II(av)	10.0						Α	
Peak forward surge current single sine-was superimposed on rated load (JEDEC Method)	ve Ifsm	220						А	
Maximum instantaneous forward voltage drop per l at 5A	eg Vf	1.0						>	
Rating for fusing (t < 8.3ms)	l <sup>2</sup> t				200				A <sup>2</sup> Se
Maximum DC reverse current at $Ta = 25^{\circ}$ rated DC blocking voltage per leg $Ta = 125^{\circ}$	- I Ir	5.0 500						μА	
Typical junction capacitance per leg at 4V,1MHz	Cj	211			94			pF	
Maximum thermal resistance per leg (Note (Note	, , ,	21 2.0						°C/M	
Operating junction and storage temperature range	Tj, Tstg	-55 to +150						$^{\circ}$	

Note

- 1. Unit mounted in free air no heat sink on P.C.B. 0.5 x 0.5" (12 x12 mm) copper pads, 0.375"(9.5mm) lead length
- 2. Device mounted on 4 x 6 x 0.25" Al-plate heatsink

#### RATINGS AND CHARACTERISTIC CURVES GBU10A THRU GBU10M





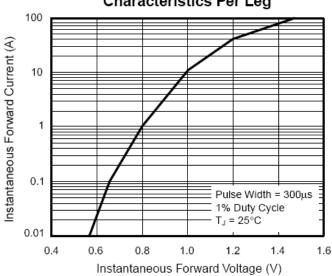


Fig. 5 – Typical Junction Capacitance Per Leg

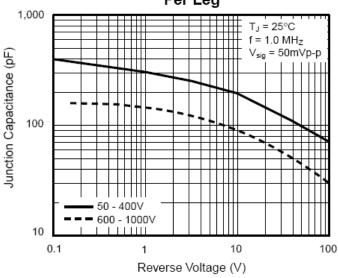


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

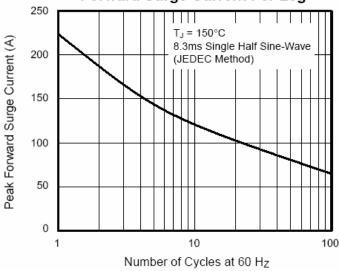


Fig. 4 – Typical Reverse Characteristics Per Leg

