



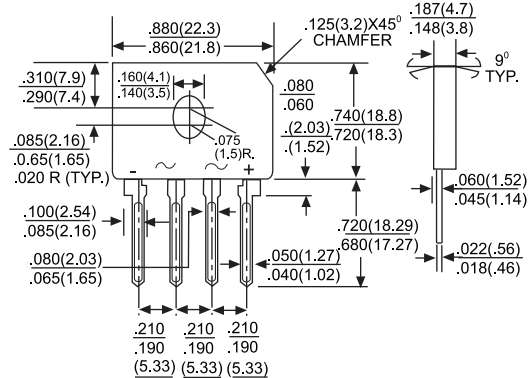
# GBU 10A/15A SERIES

**SINGLE PHASE 10/15/25/35AMPS.  
GLASS PASSIVATED BRIDGE  
RECTIFIERS**

**Voltage Range  
50 to 1000 Volts  
Current  
10/15 Amperes**

## FEATURES

- Surge overload rating - 250 ~ 400 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability classification 94 V-0
- Mounting position: Any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 50Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Type Number		GBU	GBU	GBU	GBU	GBU	GBU	GBU	UNITS
		10005	1001	1002	1004	1006	1008	1010	
		15005	1501	1502	1504	1506	1508	1510	
		25005	2501	2502	2504	2506	2508	2510	
		35005	3501	3502	3504	3506	3508	3510	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	350	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current@T <sub>c</sub> = 100°C (without heatsink)	I <sub>F(AV)</sub>				10 3.6				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I <sub>FSM</sub>	10A 15A			250 300				A
Maximum Instantaneous Forward Voltage Drop Per Leg@ 5.0A/7.5A	V <sub>F</sub>				1.0				V
Maximum DC Reverse Current at Rated DC Blocking Voltage T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C	I <sub>R</sub>				5.0 5.00				uA
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I <sup>2</sup> t				200				A <sup>2</sup> S
Typical Junction Capacitance per Leg(Note 1)	C <sub>J</sub>				70				pF
Typical Thermal Resistance(Note 2)	R <sub>θJC</sub>				2.2				°C/W
Operating Temperature Range	T <sub>J</sub>				-55 to +150				°C
Storage Temperature Range	T <sub>STG</sub>				-55 to +150				°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 V DC.  
2. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.