

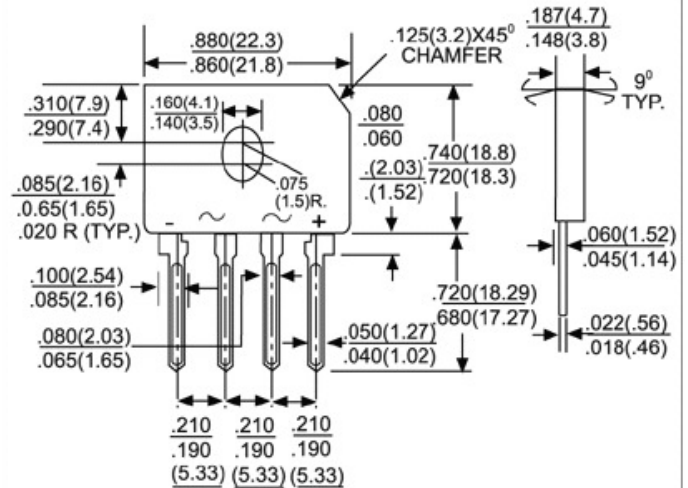
# GBU 10A/15A SERIES

**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							UNITS	
	10005	1001	1002	1004	1006	1008	1010		
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	350	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) Rectified Current@Tc = 100°C (without heatsink)	IF(AV)	10 3.6							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	IFSM	250 300							A
Maximum Instantaneous Forward Voltage Drop Per Leg@ 5.0A/7.5A	VF	1.0							V
Maximun DC Reverse Current at Rated DC Blocking Voltage	IR	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)	CJ	70							pF
Typical Thermal Resistance(Note 2)	RθJC	2.2							°C/W
Operating Temperature Range	TJ	-55 to+150							°C
Storage Temperature Range	TSTG	-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.

## RATING AND CHARACTERISTIC CURVES GBU10A/15A SERIES

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