

**GBU15005 thru GBU1510**

REVERSE VOLTAGE - **50 to 1000** Volts  
FORWARD CURRENT - **15** Amperes

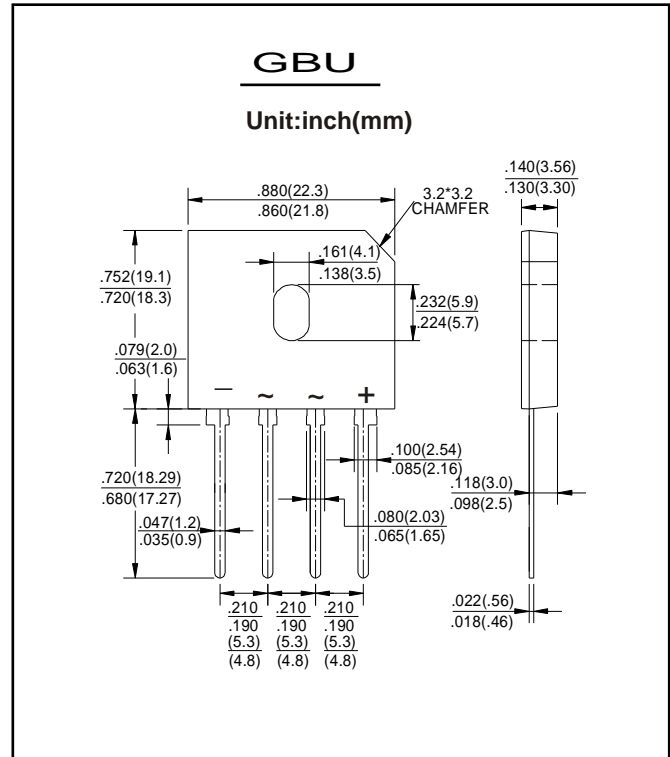
### GLASS PASSIVATED BRIDGE RECTIFIERS

#### FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Electrically isolated base-1500 Volts

#### MECHANICAL DATA

- Polarity : As marked on Body
- Weight : 0.15 ounces, 4.0 grams
- Mounting position : Any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	100	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T <sub>C</sub> =100°C (without heatsink)	I <sub>(AV)</sub>	15 3.2							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	240							A
Maximum forward Voltage at 7.5A DC	V <sub>F</sub>	1.05							V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 500							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 element (Note 1)	C <sub>J</sub>	50							pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>	2.0							°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 4.0V DC.  
2.Device mounted on 200mm x 200mm x 5mm Al Plate Heatsink.



# WEET Technology Company Limited

## Single Phase Bridge Rectifiers

**GBU15005 thru GBU1510**

**REVERSE VOLTAGE - 50 to 1000 Volts**  
**FORWARD CURRENT - 15 Amperes**

### RATINGS AND CHARACTERISTIC CURVER

FIG.1- DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

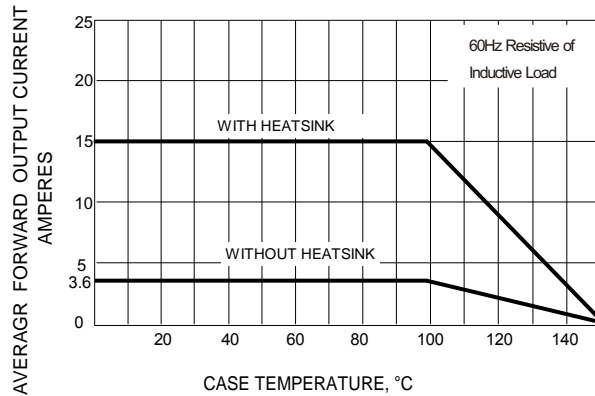


FIG.2-TYPICAL FORWARD CHARACTERISTICS

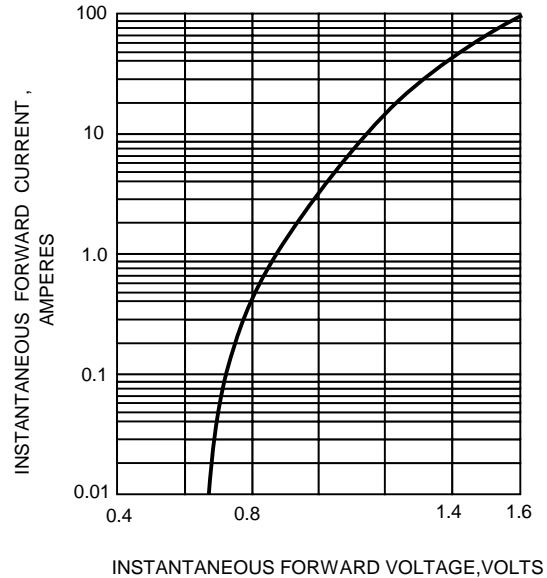


FIG.3-MAXIMUM FORWARD SURGE CURRENT

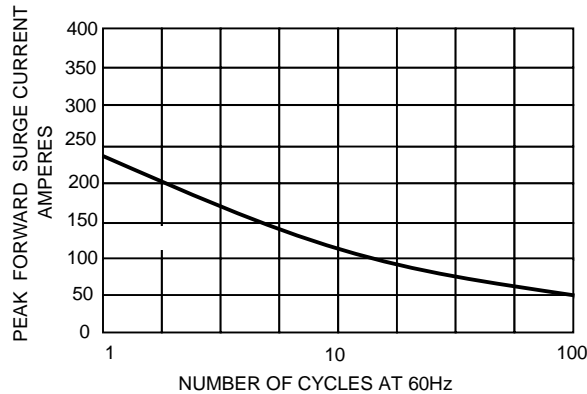


FIG.4-TYPICAL REVERSE CHARACTERISTICS

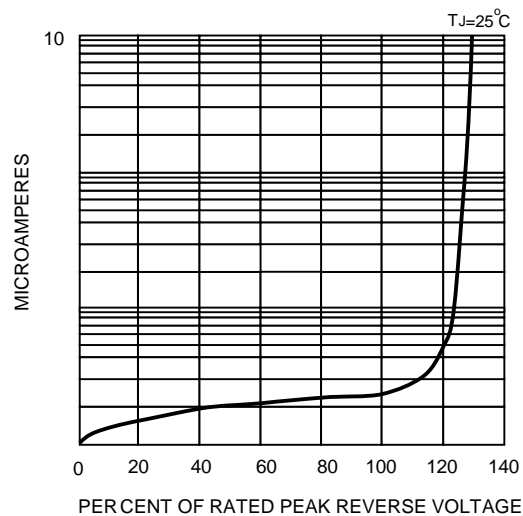
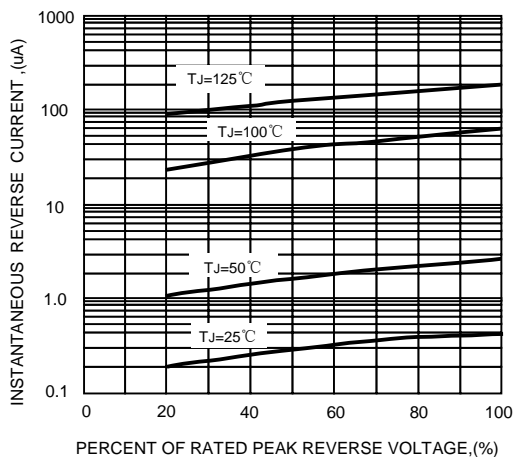


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.