



# GBU10005 THRU GBU1010

Reverse Voltage - 50 to 1000 Volts Forward Current - 10.0 Amperes

## GLASS PASSIVATED BRIDGE RECTIFIERS

### Features

- ◆ Surge overload rating - 220 amperes peak
- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ Plastic material has U/L flammability classification 94V-0

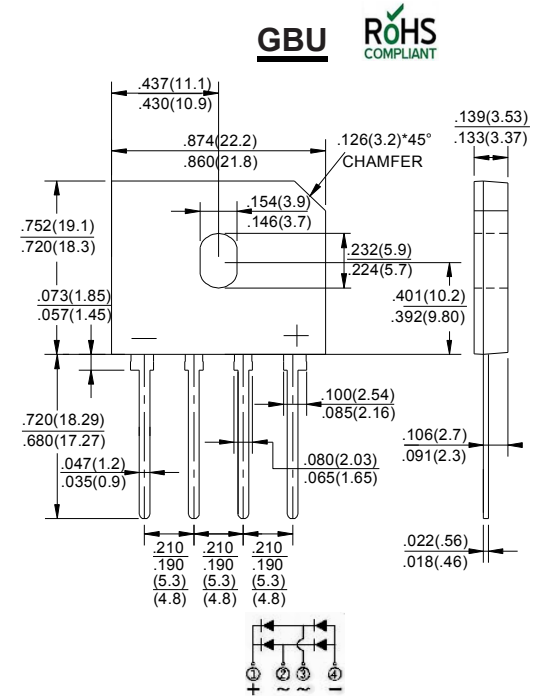
### Mechanical Data

**Case :** JEDEC GBU Molded plastic body

**Terminals :** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity :** Polarity symbol marking on body

**Mounting Position :** Any



### Maximum Ratings And Electrical Characteristics

Dimensions in inches and (millimeters)

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD GBU10005	MDD GBU1001	MDD GBU1002	MDD GBU1004	MDD GBU1006	MDD GBU1008	MDD GBU1010	UNITS	
Marking Code										
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum average forward (with heatsink NOTE 2) Rectified current @ $T_c = 100^\circ C$ (without heatsink)	$I_{(AV)}$	10.0				3.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	220								A
Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	200								A <sup>2</sup> s
Maximum forward voltage at 5.0A DC	$V_F$	1.0								V
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	$I_R$	10								$\mu A$
		0.5								mA
Typical Junction Capacitance (Note 1)	$C_J$	70								pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.2								$^\circ C/W$
Operating junction temperature range	$T_J$	-55 to +150								$^\circ C$
storage temperature range	$T_{STG}$	-55 to +150								$^\circ C$

- NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2. Device mounted on 75mm\*75mm\*1.6mm cu plate heatsink.  
3. The typical data above is for reference only.



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## Ratings And Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

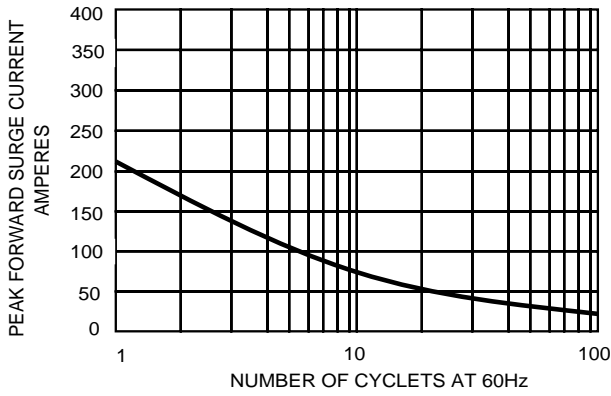


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

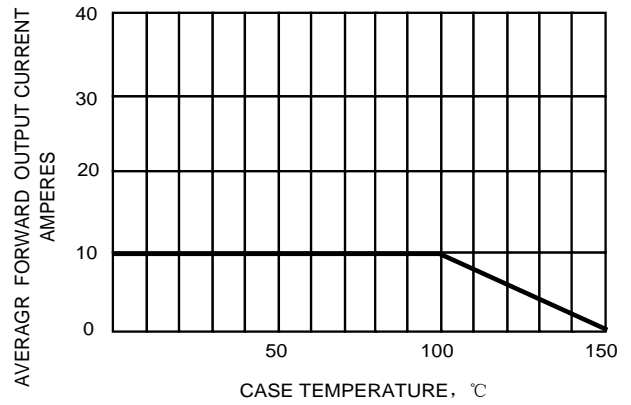


FIG.3-TYPICAL FORWARD CHARACTERISTICS

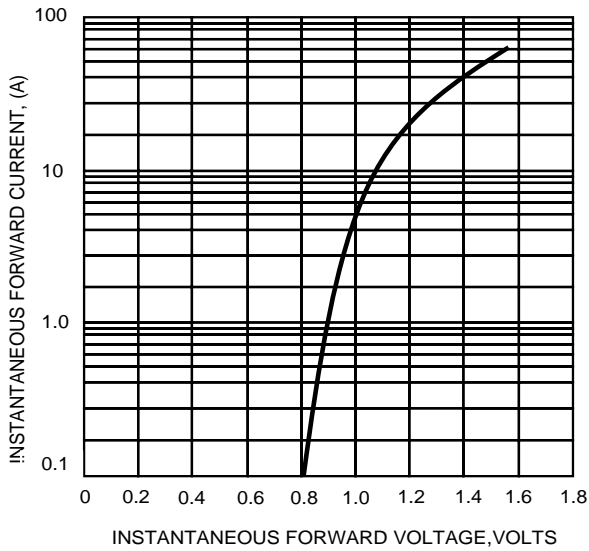
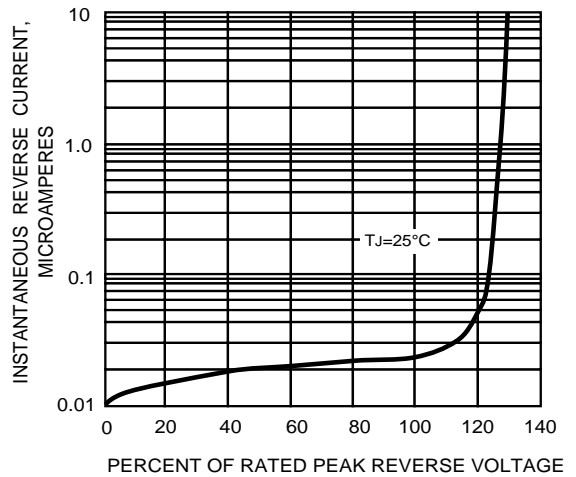


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only

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