



## 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

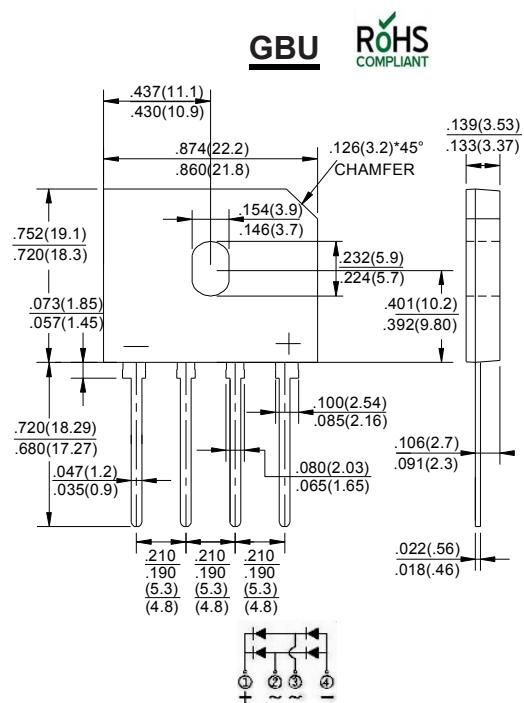
Mechanical Data

**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



Dimensions in inches and (millimeters)

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 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 <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	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>(AV)</sub>					10.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>				200				A
Rating for Fusing(t<8.3ms)	I <sup>2</sup> t				166				A <sup>2</sup> s
Maximum forward voltage at 5.0A DC	V <sub>F</sub>				1.1				V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I <sub>R</sub>				10				µA
					0.5				mA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>				70				pF
Typical Thermal Resistance (Note 2)	R <sub>θ JA</sub>				2.2				°C/W
Operating junction 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.

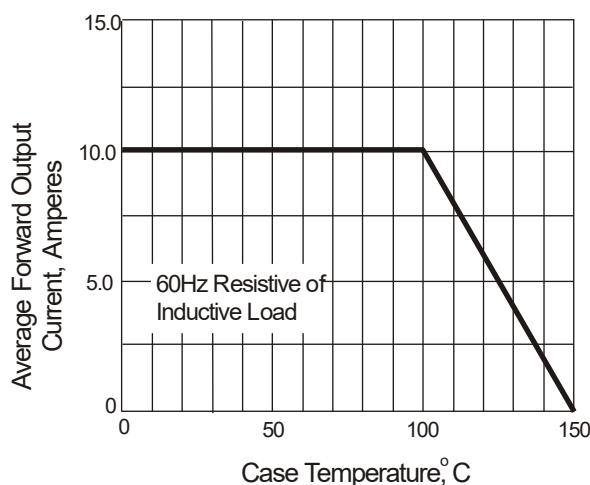
2. Device mounted on 75mm\*75mm\*1.6mm cu plate heatsink.

3. The typical data above is for reference only.

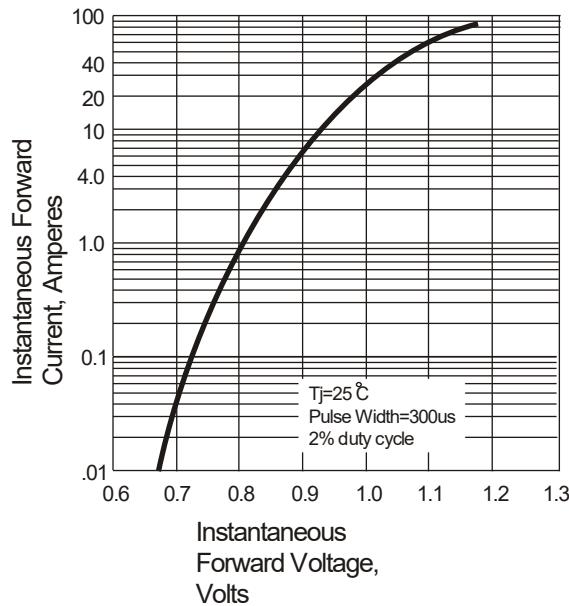


## Ratings And Characteristic Curves

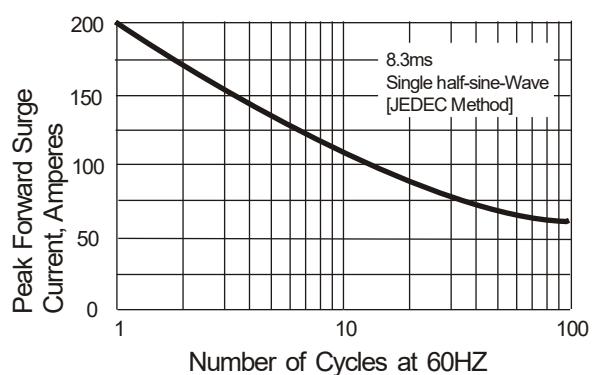
**Fig. 1 Derating Curve for Output Rectified Current**



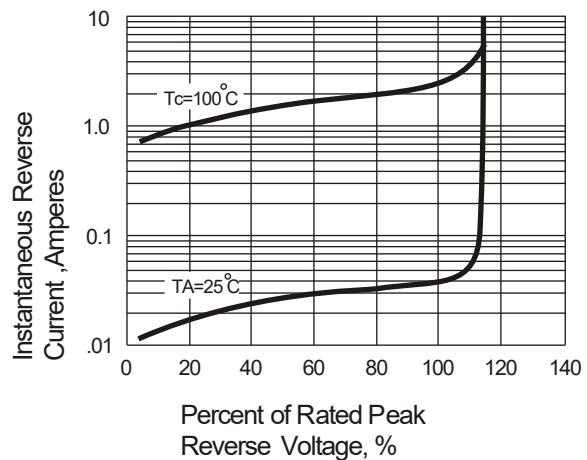
**Fig. 3 Typical Instantaneous Forward Characteristics**



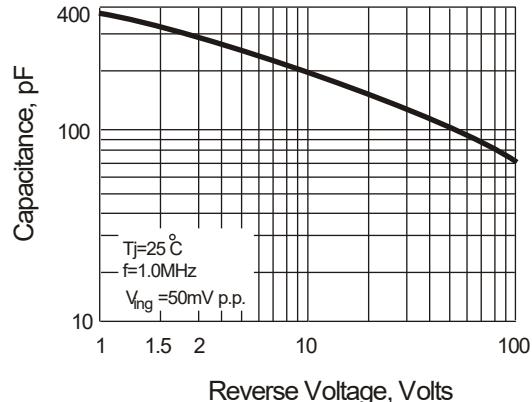
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



**Fig. 4 Typical Reverse Characteristics**



**Fig. 5 Typical Junction Capacitance**



The curve graph is for reference only