

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

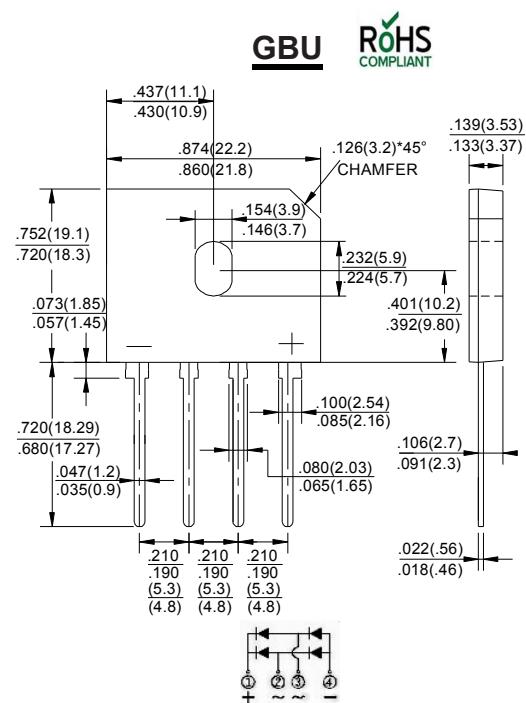
Mechanical Data

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 _{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°C (without heatsink)	I _(AV)					10.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				200				A
Rating for Fusing(t<8.3ms)	I ² t				166				A ² s
Maximum forward voltage at 5.0A DC	V _F				1.1				V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I _R				10				µA
					0.5				mA
Typical Junction Capacitance (Note 1)	C _J				70				pF
Typical Thermal Resistance (Note 2)	R _{θ JA}				2.2				°C/W
Operating junction temperature range	T _J				-55 to +150				°C
storage temperature range	T _{STG}				-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

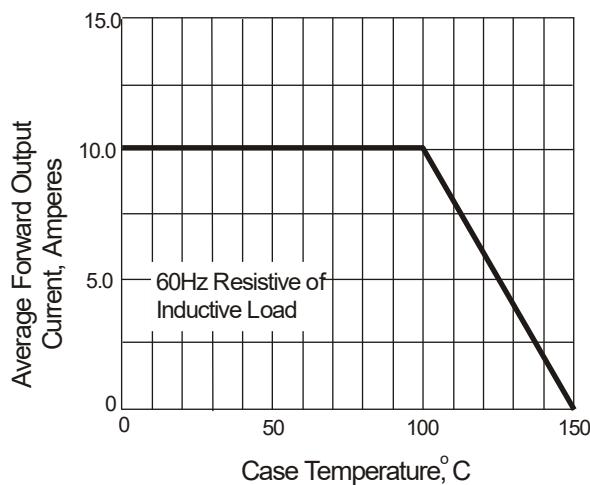


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

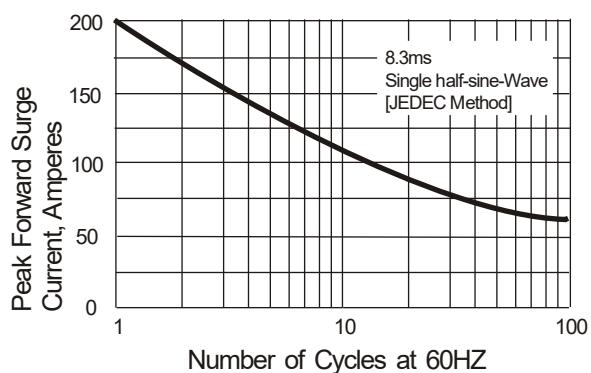


Fig. 3 Typical Instantaneous Forward Characteristics

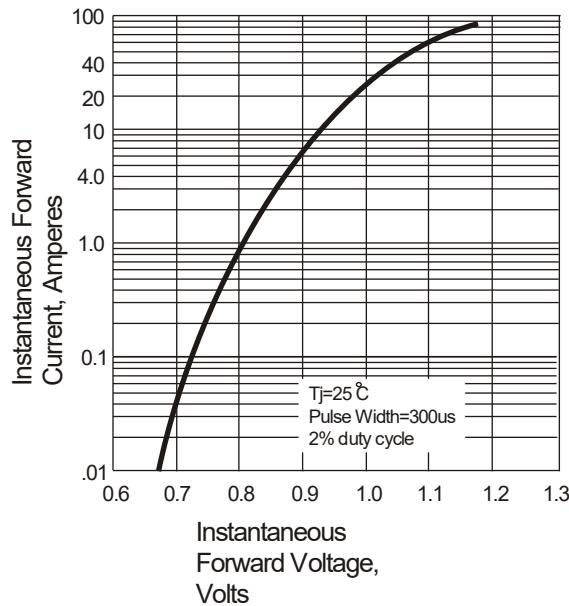


Fig. 4 Typical Reverse Characteristics

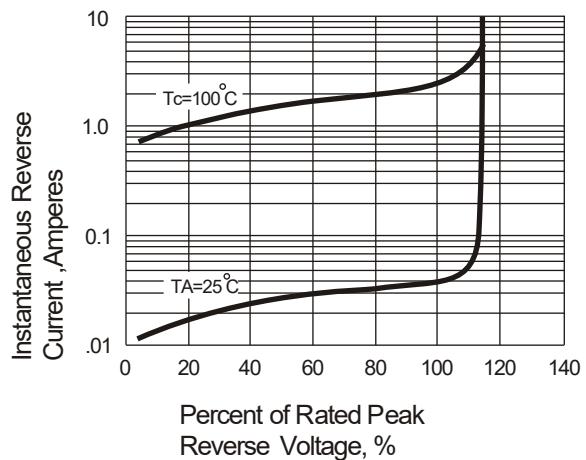
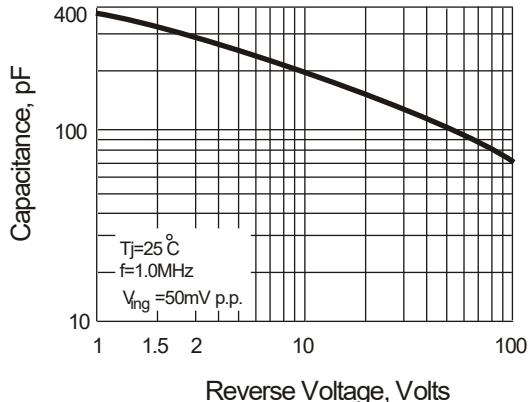


Fig. 5 Typical Junction Capacitance



The curve graph is for reference only