

GBU10005-GBU1010

Single-Phase 10.0A Glass Passivated Bridge Rectifier

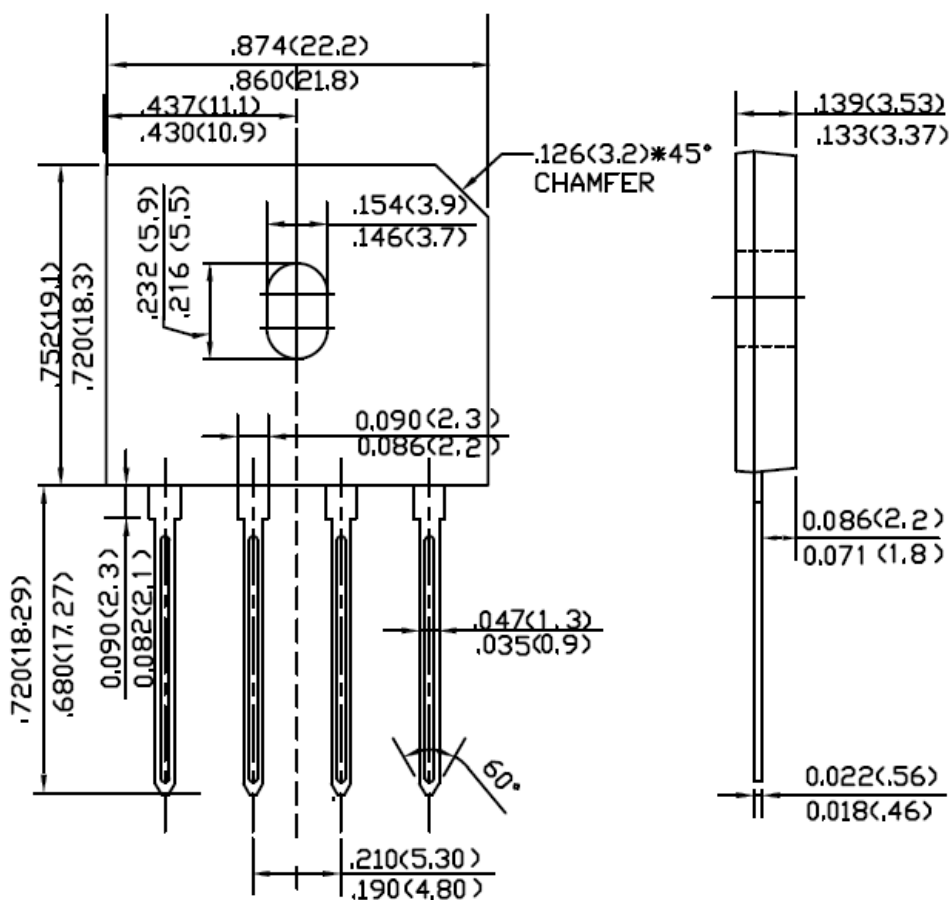
Features:

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data:

- **Case:** GBU, Molded plastic
- **Terminals:** Plated leads solderable per MIL-STD-202, Method 208
- **Polarity:** as marked on case
- **Mounting Position:** Any
- **Marking:** Type Number
- **Lead Free:** For RoHS / Lead Free Version

Mechanical Dimensions: In Inches/mm



GBU

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

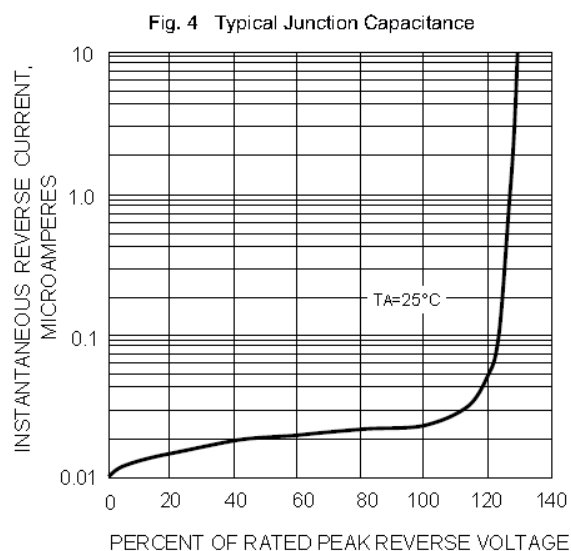
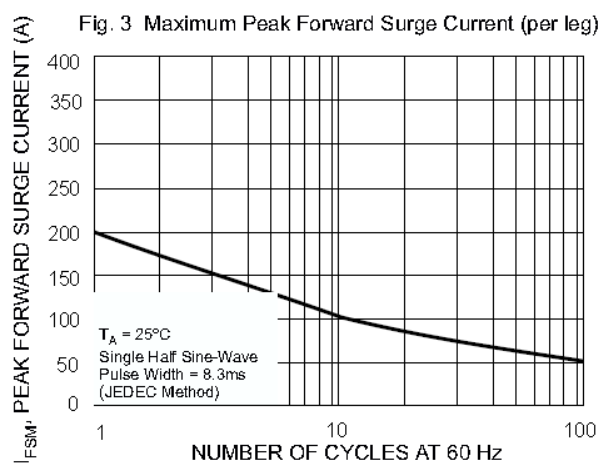
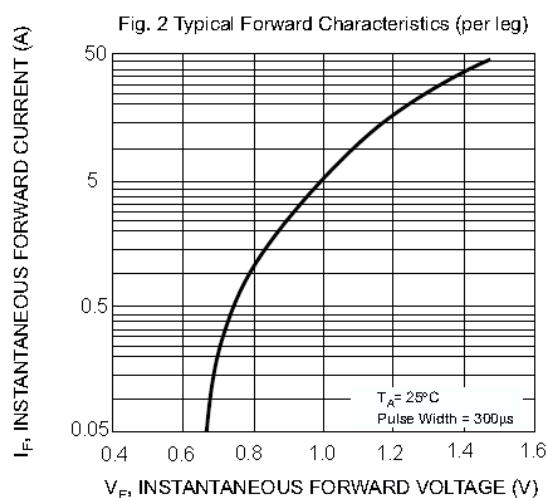
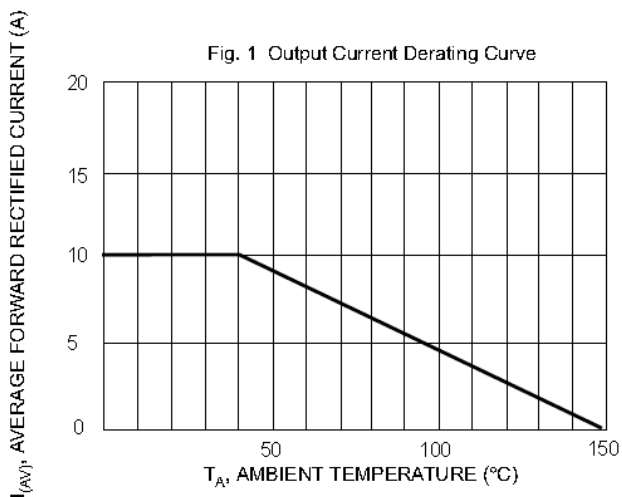
Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number	Symbol	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current (Note 1) @T _A = 40°C	I _O	10.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200							A
Forward Voltage (per element) @I _F =5A @I _F =10A	V _F	1.0 1.1							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	5.0 500							μA
Typical Junction Capacitance(per leg) (Note 2)	C _J	70							pF
Typical Thermal Resistance (per leg)	R _{θJA} R _{θJL}	25 2.2							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C
Case Style	GBU								

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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