



GBU6005G THRU GBU610G

Single Phase 6.0 AMP Glass Passivated Bridge Rectifier

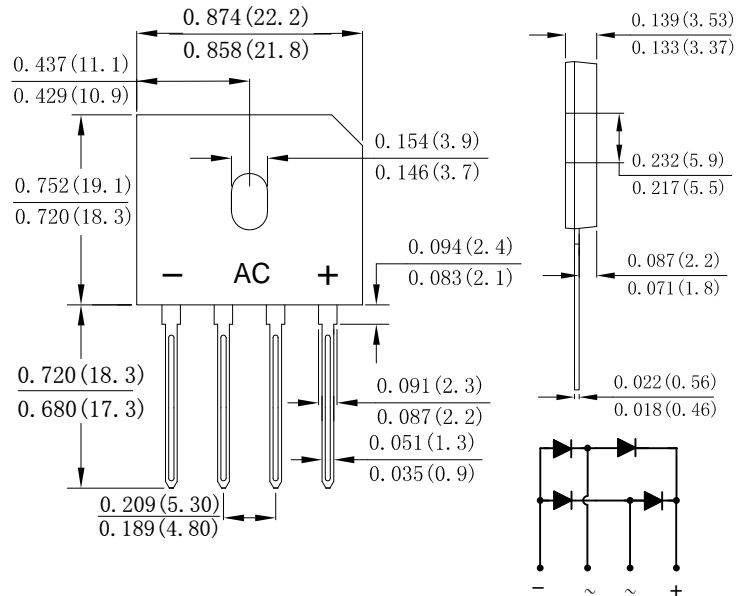
Features

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

Mechanical Data

- Case: G B U , 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

Case: GBU



dimensions in inches and (millimeters)

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 6005G	GBU 601G	GBU 602G	GBU 604G	GBU 606G	GBU 608G	GBU 610G	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _{DC}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T _c =90°C	I _{F(AV)}	6.0							A
Non-Repetitive Peak Forward Surge Current @T _J =25°C 8.3ms Single half sine-wave superimposed @T _J =125°C on rated load (JEDEC Method)	I _{FSM}	160 128							A
Non-Repetitive Peak Forward Surge @T _J =25°C Current 1 ms Single half sine-wave @T _J =125°C superimpose on rated load (JEDEC Method)	I _{FSM}	320 256							A
Forward Voltage per element 									

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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Fig. 1 Forward Current Derating Curve

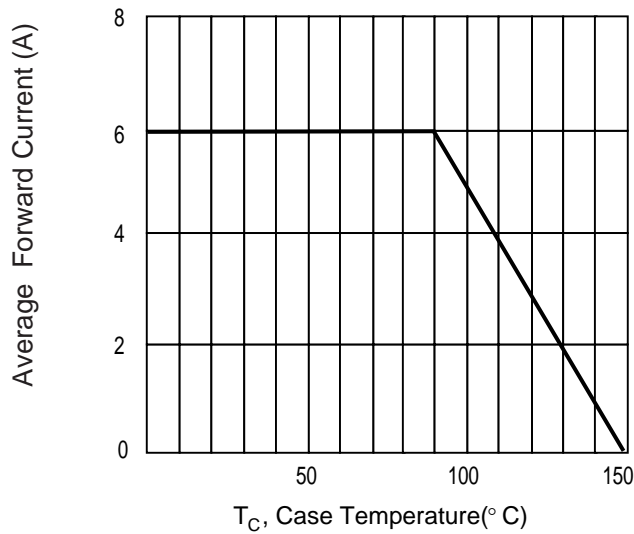


Fig. 2 Typ. Forward Characteristics

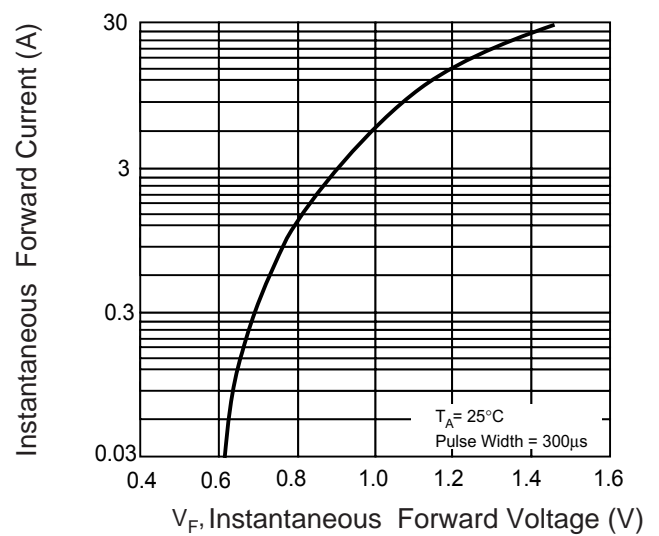


Fig.3 Maximum Peak Forward Surge Current

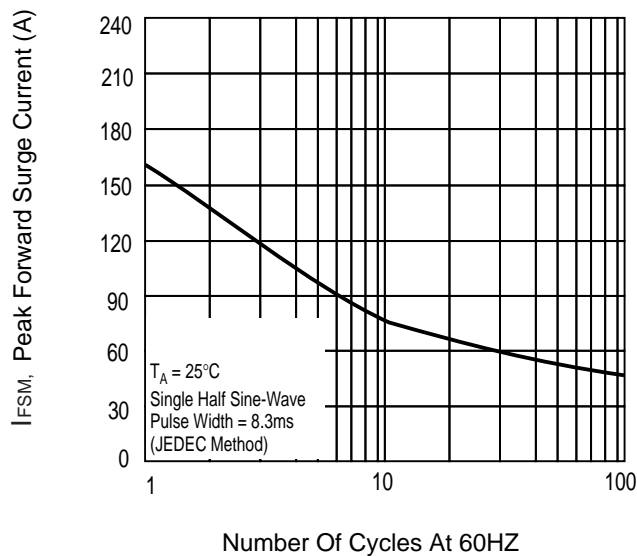


Fig. 4 Typical Junction Capacitance

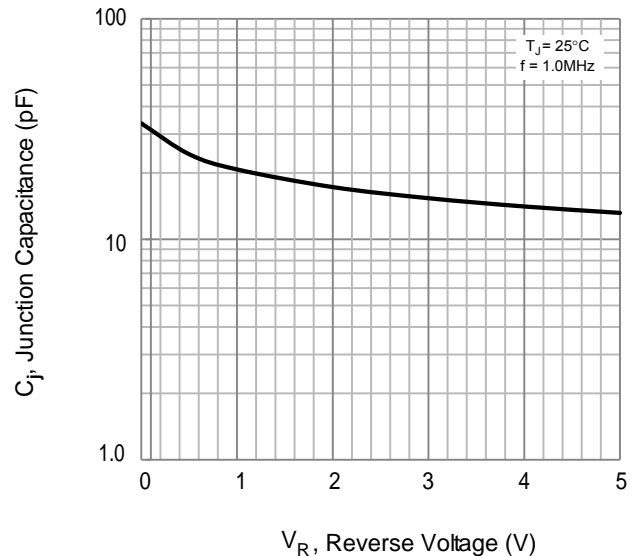
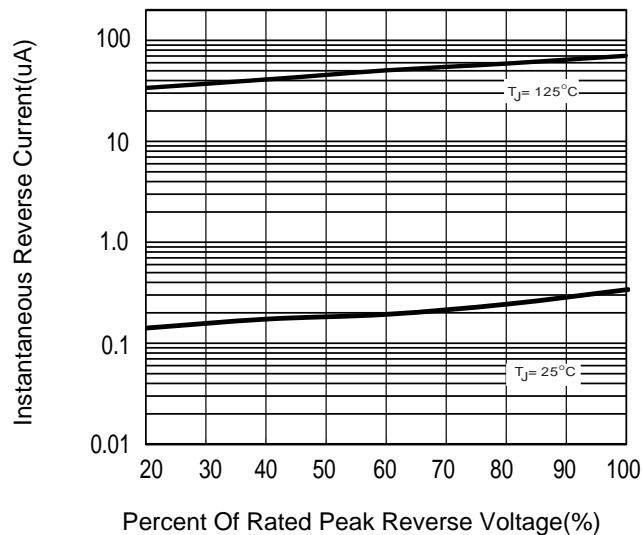


Fig.5 Typical Reverse Characteristics





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