



GBU6005G THRU GBU610G

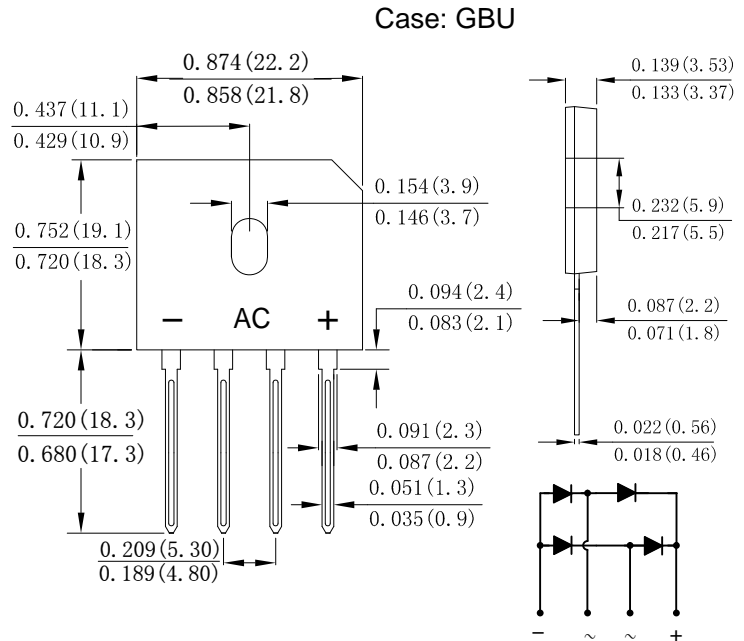
Single Phase 6.0 AMP Glass Passivated Bridge Rectifier

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: 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



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}								V	
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000		
DC Blocking Voltage	V_{DC}									
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1)@ $T_c=90^\circ C$	$I_{F(AV)}$	6.0								A
Non-Repetitive Peak Forward Surge Current @ $T_J=25^\circ C$ 8.3ms Single half sine-wave superimposed @ $T_J=125^\circ C$ on rated load (JEDEC Method)	I_{FSM}							160 128		A
Non-Repetitive Peak Forward Surge Current 1 ms Single half sine-wave superimpose on rated load (JEDEC Method)	I_{FSM}							320 256		A
Forward Voltage per element @ $I_F=3.0A$ @ $I_F=6.0A$	V_{FM}							1.0 1.1		V
Peak Reverse Current At Rated DC Blocking Voltage	I_R							5.0 200		μA
I^2t Rating for fusing (t < 8.3ms)	I^2t							106.24		A^2s
Dielectric Strength	V_{ids}							2500		V
The proposed installation torque Max torque	Tor							5.0 8.0		Kgf.cm
Typical Junction Capacitance (Note 2)	C_J							35		pF
Typical Thermal Resistance	$R_{\theta JA}$							21		$^\circ C/W$
	$R_{\theta JC}$							3.4		
	$R_{\theta JL}$							2.1		
Operating and Storage Temperature Range	T_J, T_{STG}							-55to+150		$^\circ C$

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

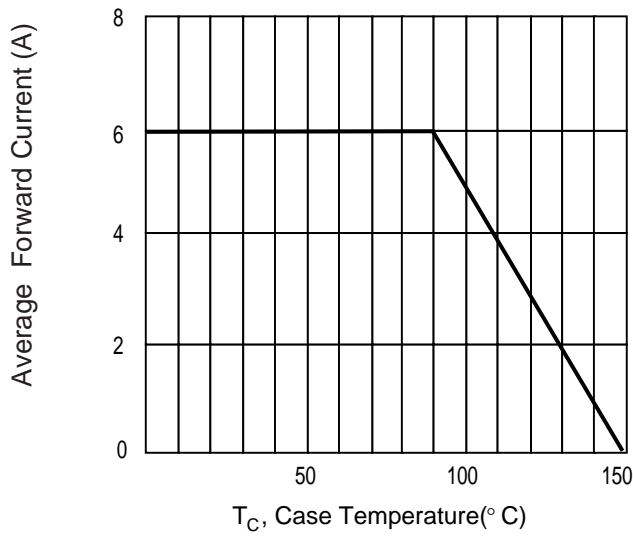


Fig. 2 Typ. Forward Characteristics

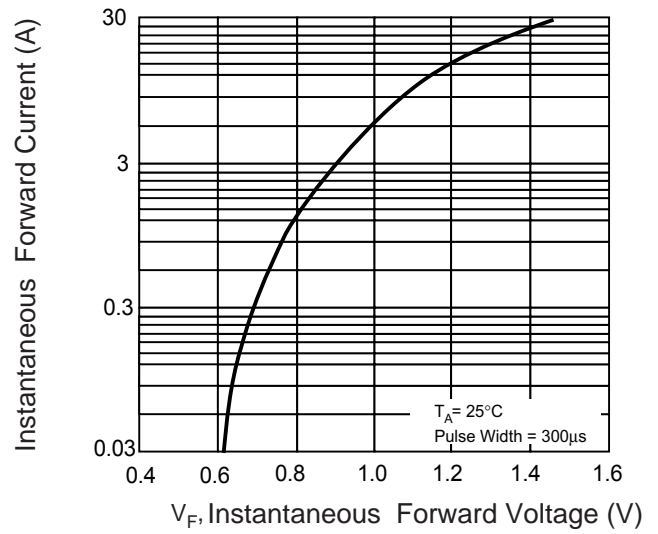


Fig.3 Maximum Peak Forward Surge Current

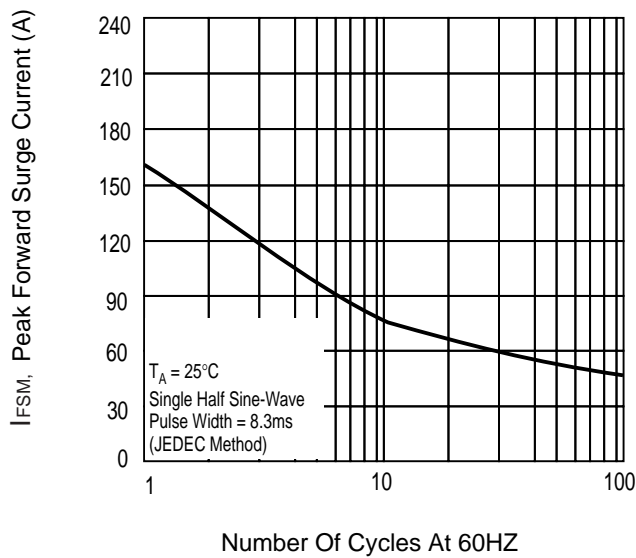


Fig. 4 Typical Junction Capacitance

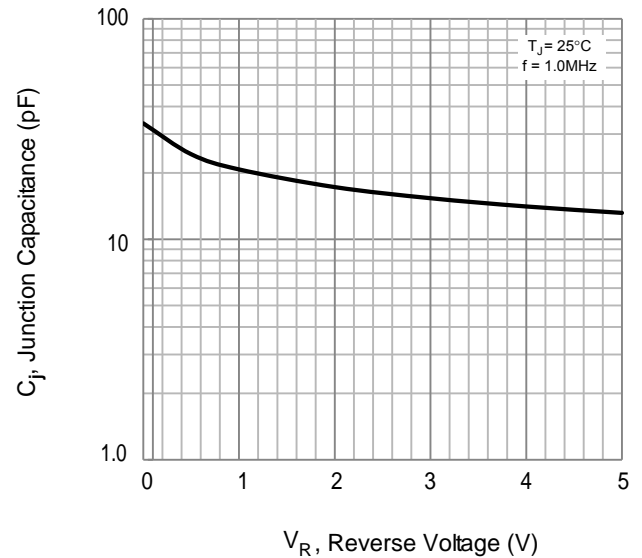
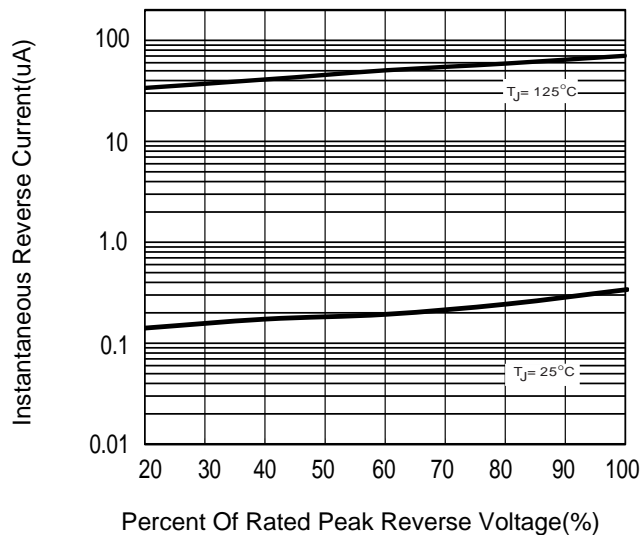


Fig.5 Typical Reverse Characteristics





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