



GBU8005 THRU GBU810

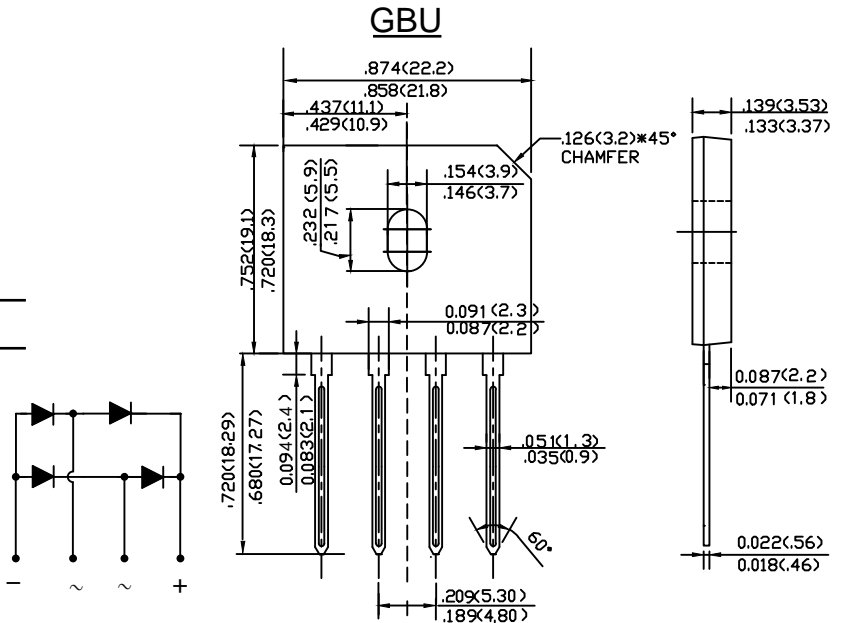
SINGLE PHASE 8.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

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



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

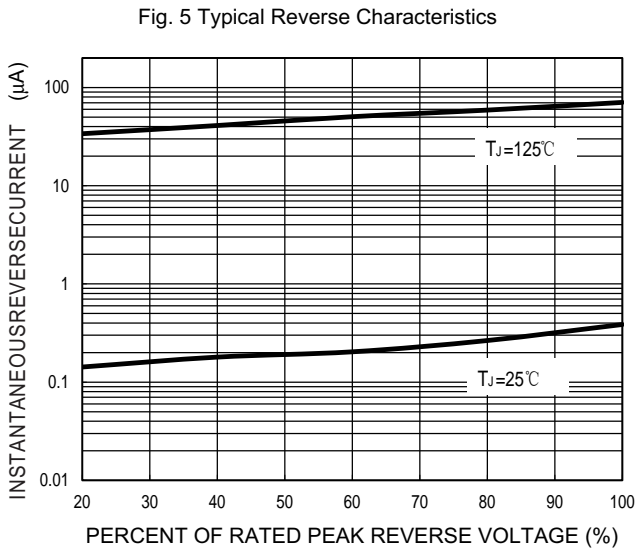
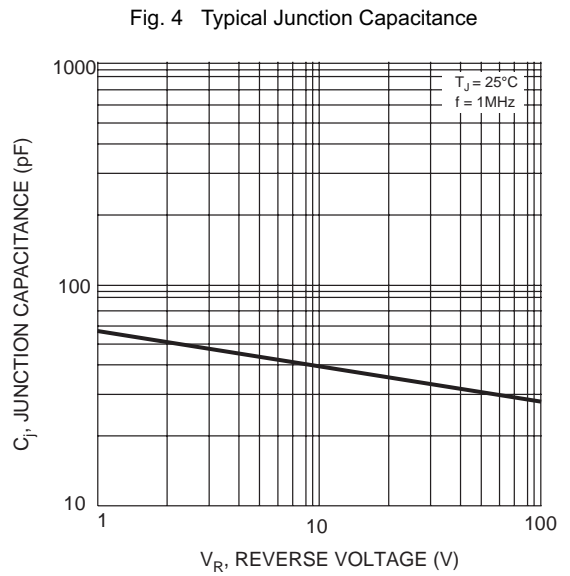
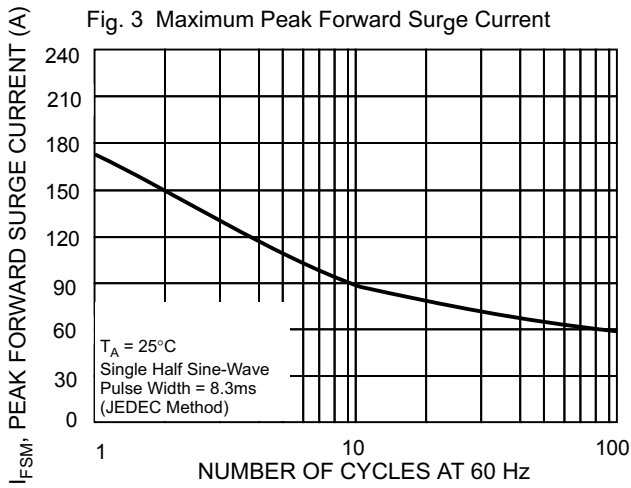
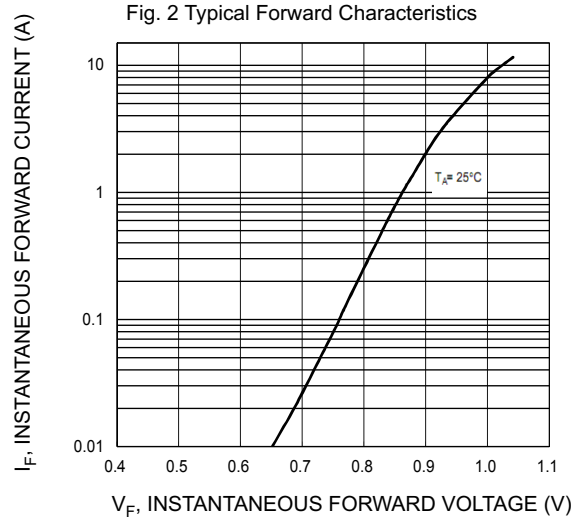
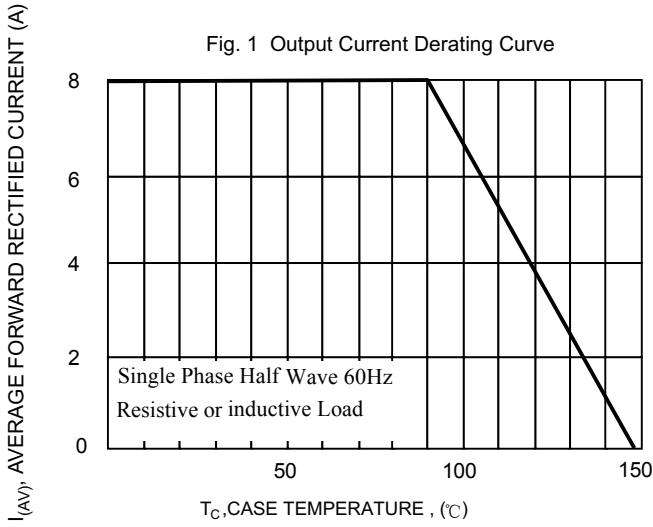
Rating at 25°C ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	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)@ $T_C=90^\circ C$	$I_{F(AV)}$	8.0							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}	175 140							A
Non-Repetitive Peak Forward Surge Current 1 ms Single half sine-wave @ $T_J=125^\circ C$ superimpose on rated load (JEDEC Method)	I_{FSM}	350 280							A
Forward Voltage per element @ $I_F=4.0A$ @ $I_F=8.0A$	V_{FM}	1.0 1.1							V
Peak Reverse Current @ $T_J=25^\circ C$ At Rated DC Blocking Voltage $T_J=125^\circ C$	I_R	5.0 200							μA
I^2t Rating for fusing (t < 8.3ms)	I^2t	127.09							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	45							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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