

GBU4005G THRU GBU410G

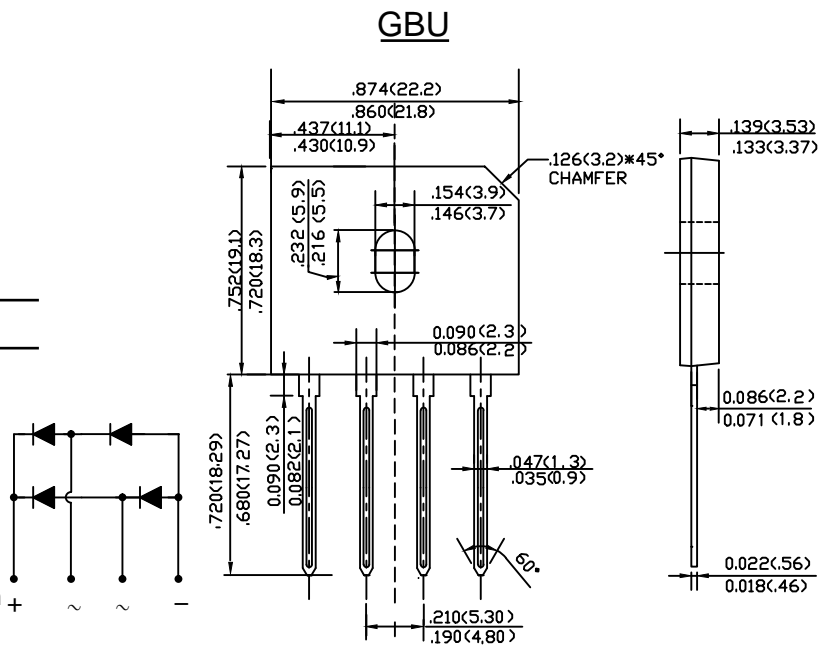
SINGLE PHASE 4.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

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

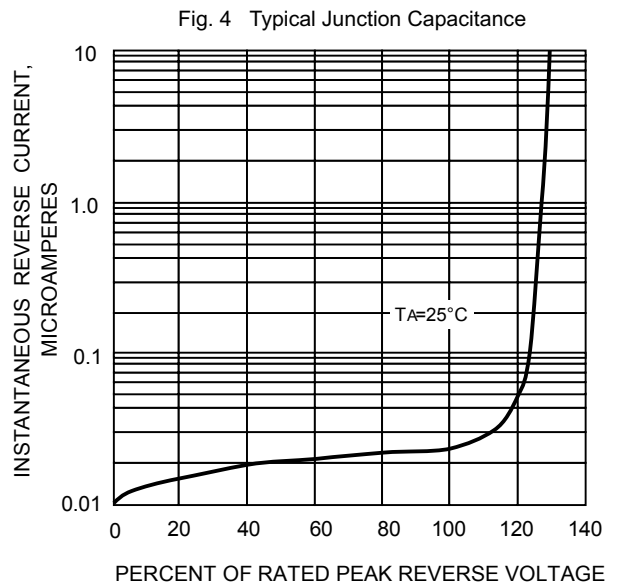
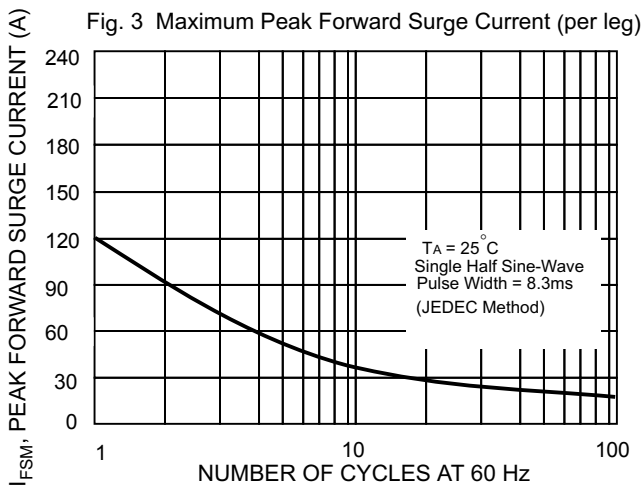
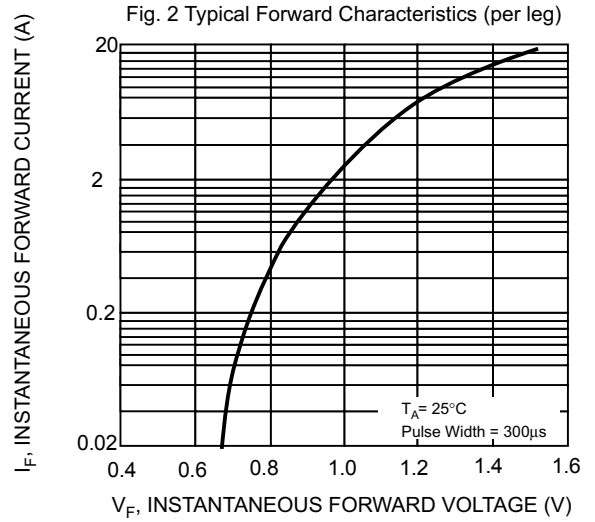
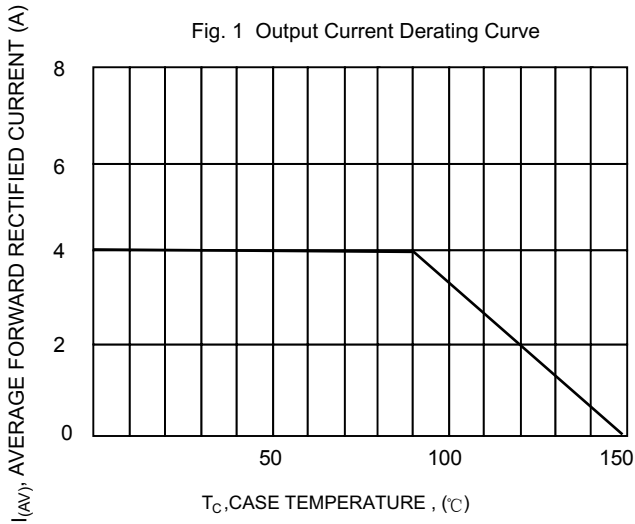


Maximum Ratings and Electrical Characteristics

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	GBU	GBU	GBU	GBU	GBU	GBU	UNITS	
		4005G	401G	402G	404G	406G	408G	410G		
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)@ $T_c=90^\circ C$	$I_{F(AV)}$	4.0							A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	120							A	
Forward Voltage per element @ $I_F=2A$ @ $I_F=4A$	V_{FM}					1.0 1.1				V
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R					5.0 500				μA
I^2t Rating for fusing ($t < 8.3ms$)	I^2t					59.7				A^2s
Typical Junction Capacitance per leg (Note 2)	C_J					65				pF
Typical Thermal Resistance per leg (Note 3)	$R_{\theta JA}$					31				$^\circ C/W$
	$R_{\theta JL}$					7.6				
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.
 3. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.



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