

RoHS Compliant Product

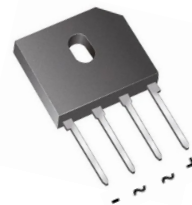
FEATURES

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Plastic Material-UL Flammability 94V-0

MECHANICAL DATA

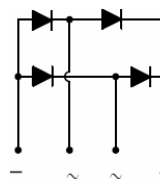
- Case: GBU, molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number

GBU



ORDER INFORMATION

Part Number	Type
GBU4005T~GBU410T	Lead (Pb)-free
GBU4005TH~GBU410TH	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

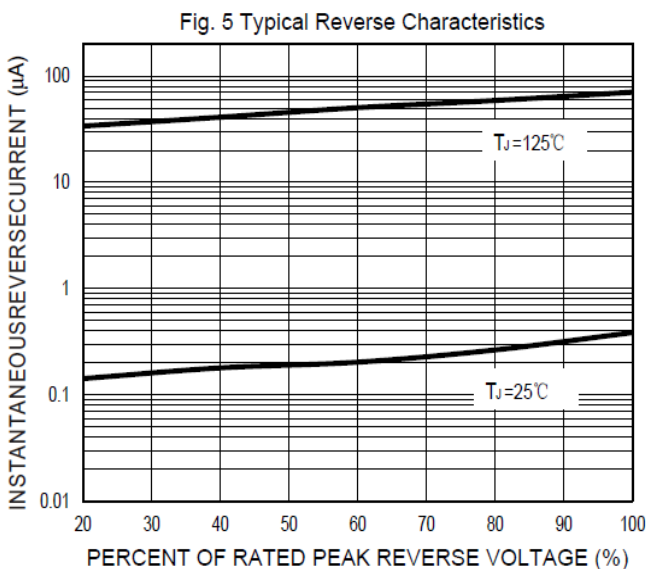
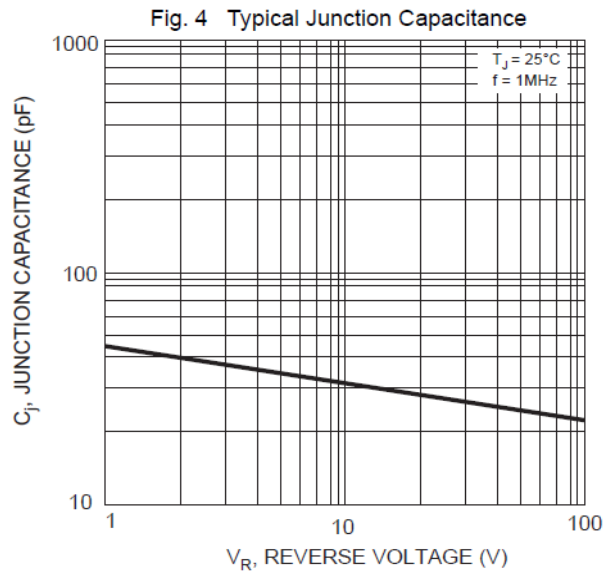
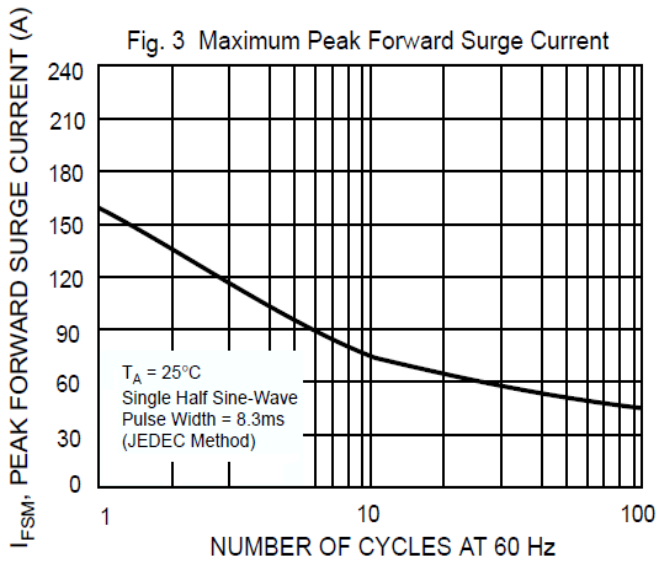
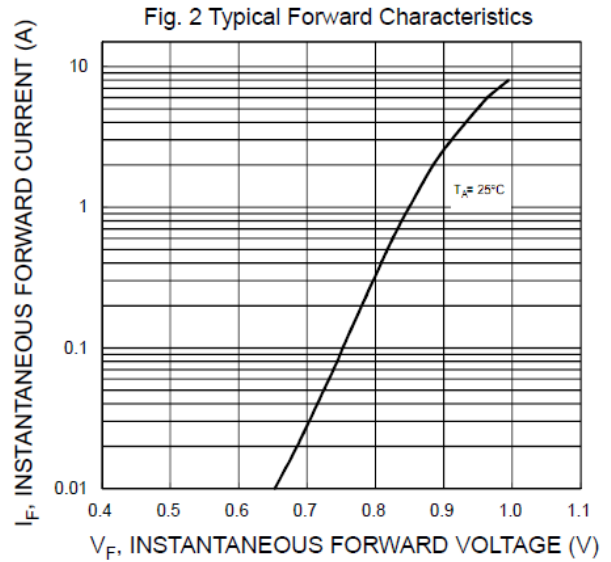
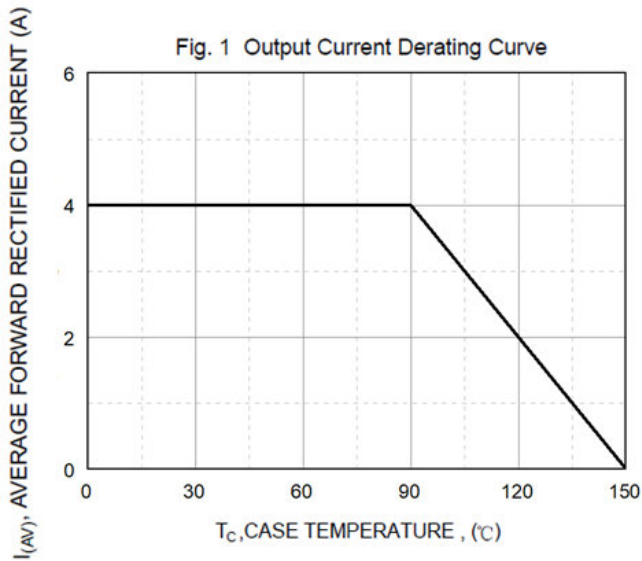
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		GBU 4005T	GBU 401T	GBU 402T	GBU 404T	GBU 406T	GBU 408T	GBU 410T	
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current ¹	I_F	4							A
Non-Repetitive Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$T_J=25^\circ\text{C}$	160							A
	$T_J=125^\circ\text{C}$	128							
Non-Repetitive Peak Forward Surge Current, 1ms single half sine-wave superimposed on rated load (JEDEC Method)	$T_J=25^\circ\text{C}$	320							A
	$T_J=125^\circ\text{C}$	256							
I^2t Rating for Fusing ($t<8.3\text{ms}$)	I^2t	106.24							A ² S
Forward Voltage per element	$I_F=2\text{A}$	0.95							V
	$I_F=4\text{A}$	0.98							
Peak Reverse Current @Rated DC Blocking Voltage	$T_J=25^\circ\text{C}$	5							μA
	$T_J=125^\circ\text{C}$	200							
Typical Junction Capacitance ²	C_J	35							pF
Typical Thermal Resistance	$R_{\theta JA}$	21							$^\circ\text{C/W}$
	$R_{\theta JC}$	3.4							
	$R_{\theta JL}$	2.1							
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150							$^\circ\text{C}$

Notes:

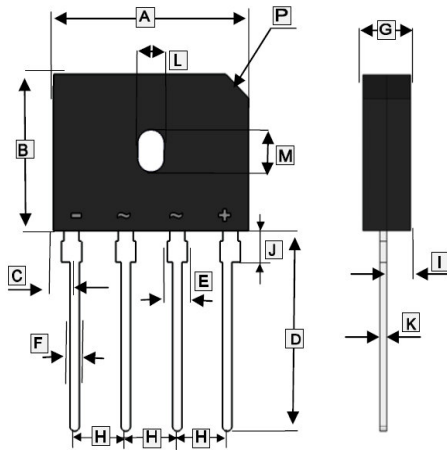
1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
2. Measured at 1MHz and applied reverse voltage of 4V D.C.

RATINGS AND CHARACTERISTIC CURVES



PACKAGE OUTLINE DIMENSIONS

GBU



REF.	Millimeter	
	Min.	Max.
A	21.70	22.30
B	18.20	19.10
C	3.40 REF.	
D	17.27	18.50
E	1.80	2.54
F	0.90	1.30
G	3.30	3.80
H	4.80	5.33
I	1.80	2.66
J	1.80	2.54
K	0.40	0.60
L	3.50	4.10
M	5.70 TYP.	
P	3*45° TYP.	