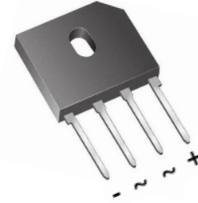


RoHS Compliant Product

FEATURES

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

GBU

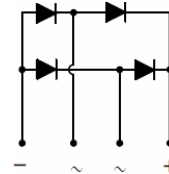


MECHANICAL DATA

- 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

ORDER INFORMATION

Part Number	Type
GBU1008L	Lead (Pb)-free
GBU1008LH	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
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS Voltage	V_{RMS}	560	
Maximum DC Blocking Voltage	V_{DC}	800	
Maximum Average Forward Rectified Current @ $T_c=90^\circ\text{C}$	With Heatsink ¹	10	A
	Without Heatsink	3	
Peak Forward Surge Current @8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	250	A
I^2t Rating for Fusing ($t<8.3\text{ms}$)	I^2t	259.38	A ² S
Forward Voltage	$I_F=5\text{A}$	0.92	V
	$I_F=10\text{A}$	0.97	
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 Per Element ²	C_J	65	pF
Thermal Resistance Junction-Ambient	$R_{\theta JA}$	2.2	°C/W
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150	°C

Notes:

1. Unit case mounted on aluminum plate heatsink.
2. Measured at 1MHz and applied reverse voltage of 4V D.C.

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Forward Current Derating Curve

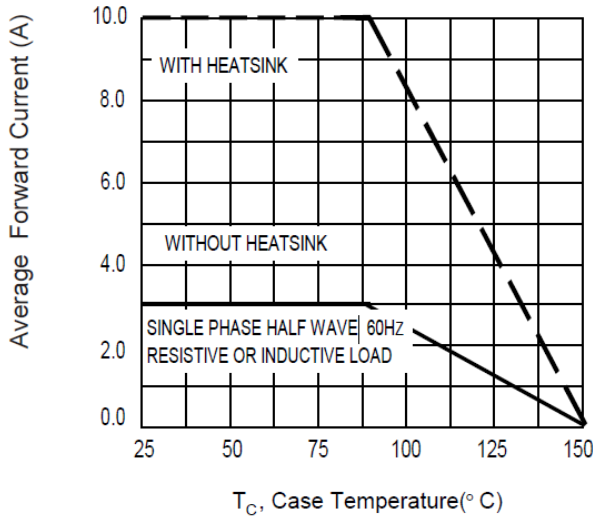


Fig. 2 Typ. Forward Characteristics

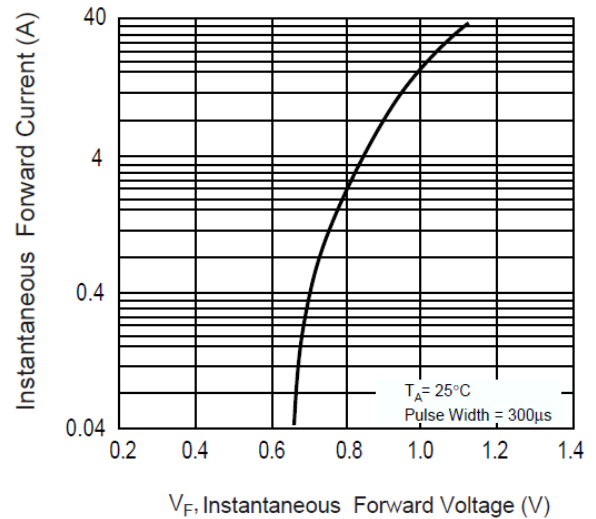


Fig.3 Maximum Peak Forward Surge Current

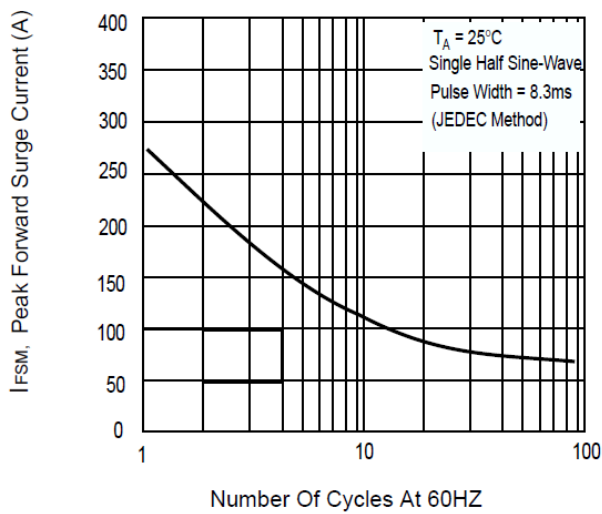


Fig. 4 Typical Junction Capacitance

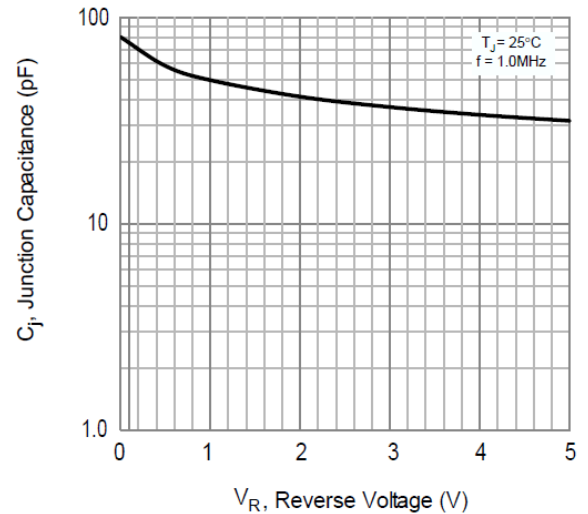
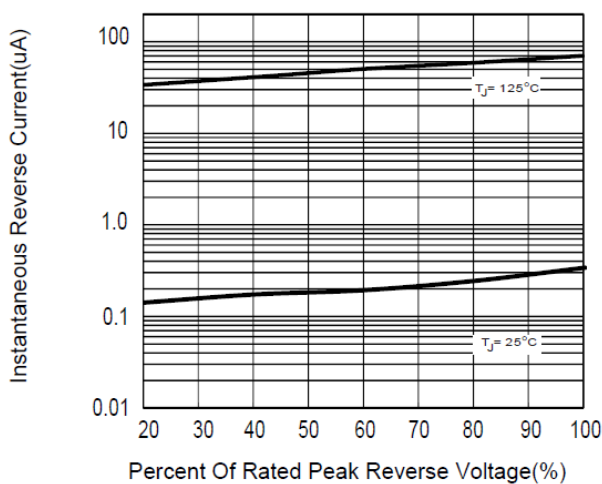
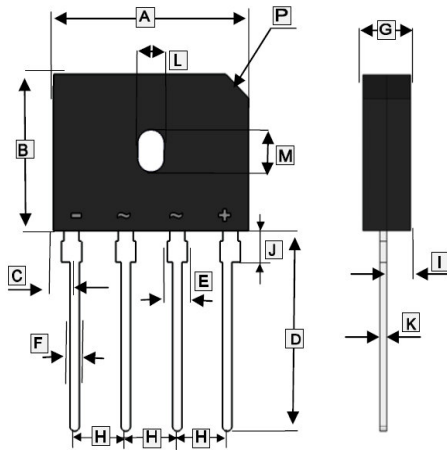


Fig.5 Typical Reverse Characteristics



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.	