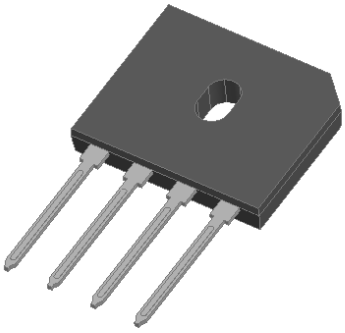
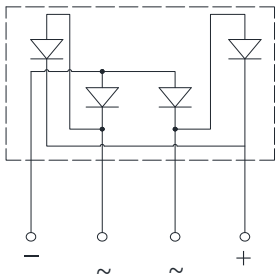
RoHS
COMPLIANT





- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

- : GBU
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- As marked on body

■ (T_a=25 Unless otherwise specified

Device marking code			GBU50005	GBU5001	GBU5002	GBU5004	GBU5006	GBU5008	GBU5010
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load — With heatsink Tc =100	I_O	A	50.0						
Average rectified output current @60Hz sine wave, R-load — Without heatsink Ta =25	I_O	A	4.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	500						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25	I_{FSM}	A	1000						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode	I^2t	A^2S	1037.5						
Storage temperature	T_{stg}		-55 ~ +150						
Junction temperature	T_j		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8						

■ T_a=25 Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=25A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	5						
			T_j=125	200						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	190						

■ T_a=25 Unless otherwise specified

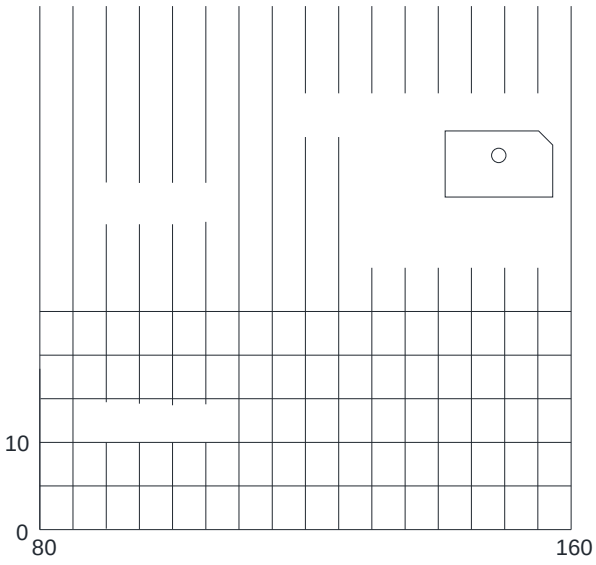
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	22.0						
	Between junction and case, With heatsink	$R_{\theta J-C}$		0.5						

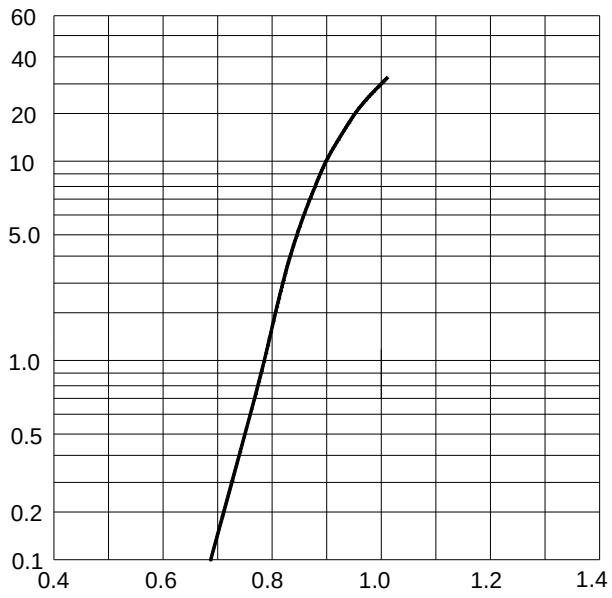
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

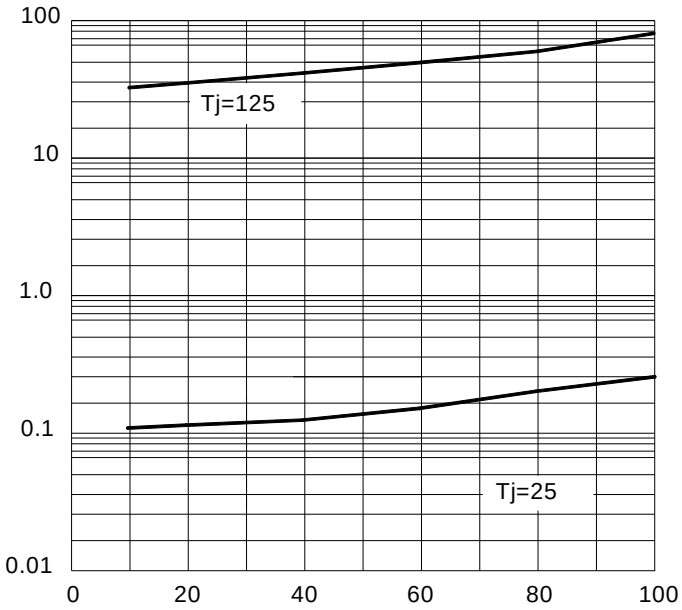
■ (Example)

GBU50005 THRU GBU5010	B1	Approximate 3.95	20	1000	2000	TUBE

■ (Typical)







■

Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.30	3.90
E	7.10	7.50
F	5.50	5.90
G	1.91	2.54
H	2.06	2.54
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56

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