

GBU10005 THRU GBU1010

GBU

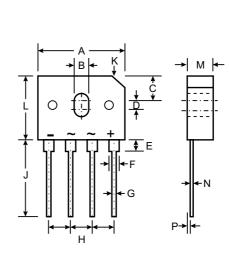
BRIDGE RECTIFIERS

FEATURES

- · UL Recognized File #E469616
- \cdot Glass passivated chip junction
- · Reliable low cost construction utilizing molded plastic technique
- \cdot Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

MECHANICAL DATA

Case: Molded plastic, GBU Epoxy: UL 94V-O rate flame retardant Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: Any Weight: 0.15ounce, 4.0gram



Dim	Min	Max		
Α	21.8	22.3		
в	3.5	4.1		
С	7.4	7.9		
D	1.65	2.16		
Е	2.25	2.75		
F	2.05	2.3		
G	1.02	1.27		
Н	4.83	5.33		
J	17.5	18.0		
к	4.2 >	X 45°		
L	18.3	18.8		
Μ	3.30	3.56		
Ν	0.46	0.56		
Р	0.76	1.0		
K L M N	4.2) 18.3 3.30 0.46	< 45° 18.8 3.56 0.56		

Dimensions in millimeters

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Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward	т								
Rectified Current at T _C =100	I _(AV)	10.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM}	150							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V	1.0							Valta
at 10.0A DC and 25	V _F		1.0						Volts
Maximum Reverse Current at T _A =25	T	5.0							
at Rated DC Blocking Voltage T _A =125	I _R		500						uAmp
Typical Junction Capacitance (Note 3)	CJ		2	55			125		pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	8.6					/W		
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3.1					/W		
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							

NOTES:

1- Units Mounted in free air, no heatsink, P.C.B at 0.375"(9.5mm) lead length with 0.5 x 0.5"(12 x 12mm)copper pads.

2- Units Mounted on a 2.6 x 1.4" x 0.06" thick (6.5 x 3.5 x 0.15cm) AL plate.

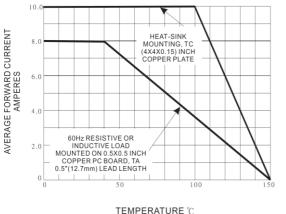
3- Measured at 1 MH_z and applied reverse voltage of 4.0 VDC.

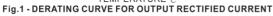
4- Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws

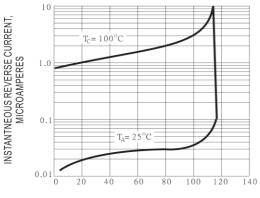


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Characteristic Curves (T_A=25 °C unless otherwise noted)







PERCENT OF PEAK REVERSE VOLTAGE

Fig.3 - TYPICAL REVERSE CHARACTERISTICS

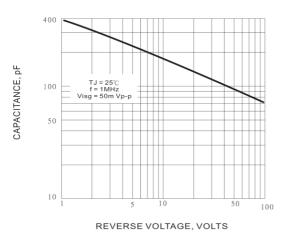
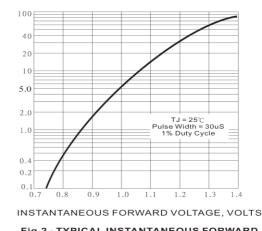


Fig.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT



INSTANTANEOUS FORWARD CURRENT, AMPERES

Fig.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

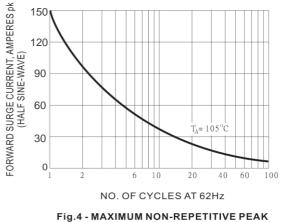


Fig.4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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GUANGZHOU JUXING ELECTRONICS CO., LTD

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