PECLERS®

GBU6A THRU GBU6M

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

50 to 1000 VOLTS **REVERSE VOLTAGE:** FORWARD CURRENT: 6.0 AMPERE

FEATURES

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

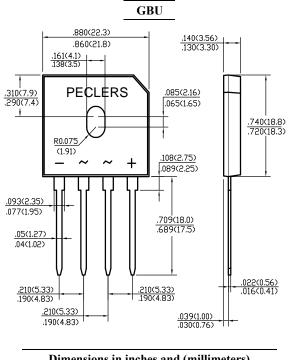
MECHANICAL DATA

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



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

		Symbols	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	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 T _C =	100℃	-	6.0							Amp
Rectified Current at (No	te 1),(Note 2)	$I_{(AV)}$								
Peak Forward Surge Current,										
8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	175							Amp
Maximum Forward Voltage	vard Voltage		1.0							X7 . 14
at 3.0A DC and 25 ℃		V_{F}	1.0							Volts
Maximum Reverse Current at T	_A =25°C		5.0							uAmp
at Rated DC Blocking Voltage T _A =	125℃	I_R		500						
Typical Junction Capacitance (Note 3)		C_{J}	210 94						pF	
Typical Thermal Resistance (Note 1),(Note 2)		$R_{\theta JA}$	7.4							°C/W
Typical Thermal Resistance (Note 1),(Note 2)		$R_{\theta JC}$	2.2							°C/W
Operating and Storage Temperature Range		T _J , Tstg	-55 to +150							°C

NOTES:

- 1- Units case mounted on 2.6 x 1.4 x 0.06" thick (6.5 x 3.5 x 0.15 cm) Al. Plate heatsink
- 2- Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws
- 3- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.





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RATINGS AND CHARACTERISTIC CURVES

Fig. 1 – Derating Curve
Output Rectified Current

6.0

Heatsink Mounting,
2.6 x 1.4 x 0.06" Thk
(6.5 x 3.5 x .15cm) AL. Plate

4.0

4.0

60 Hz Resistive or Inductive Load
0 50 100 150

Case Temperature (°C)

