

REVERSE VOLTAGE: 50 to 1000 VOLTS
FORWARD CURRENT: 4.0 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

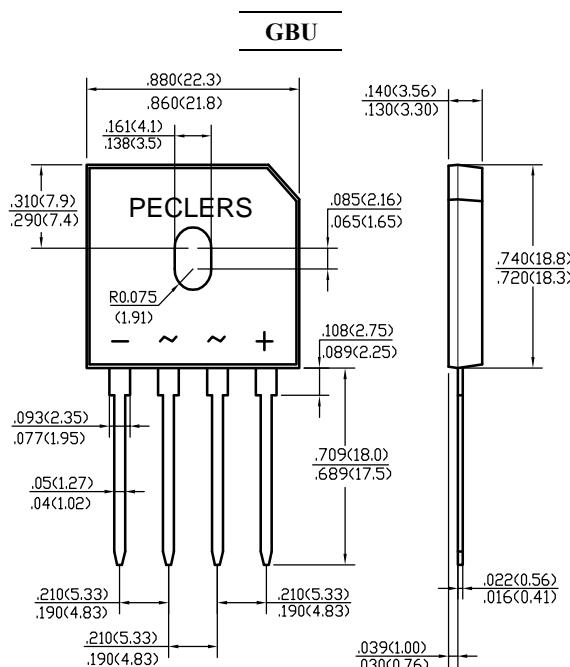
Case: Molded plastic, GBU

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	GBU4A	GBU4B	GBU4D	GBU4G	GBU4J	GBU4K	GBU4M	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 Rectified Current at T_C=100°C (Note 1)	I _(AV)	4.0						Amp		
Rectified Current at T_A= 40°C (Note 2)		3.0								
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150						Amp		
Maximum Forward Voltage at 2.0A DC and 25°C	V _F	1.0								
Maximum Reverse Current at T_A=25°C at Rated DC Blocking Voltage T_A=125°C	I _R	5.0						uAmp		
Typical Junction Capacitance (Note 3)	C _J	100		45		pF				
Typical Thermal Resistance (Note 2)	R _{θJA}	22						°C/W		
Typical Thermal Resistance (Note 1)	R _{θJC}	4.2								
Operating and Storage Temperature Range	T _J , T _{Stg}	-55 to +150						°C		

NOTES:

1- Unit case mounted on 1.6 x 1.6 x 0.06" thick (4.0 x4.0 x 0.15cm) Al. Plate

2- Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads and 0.375" (9.5mm) lead length

3- Measured at 1 MHz 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 screw

RATINGS AND CHARACTERISTIC CURVES

