

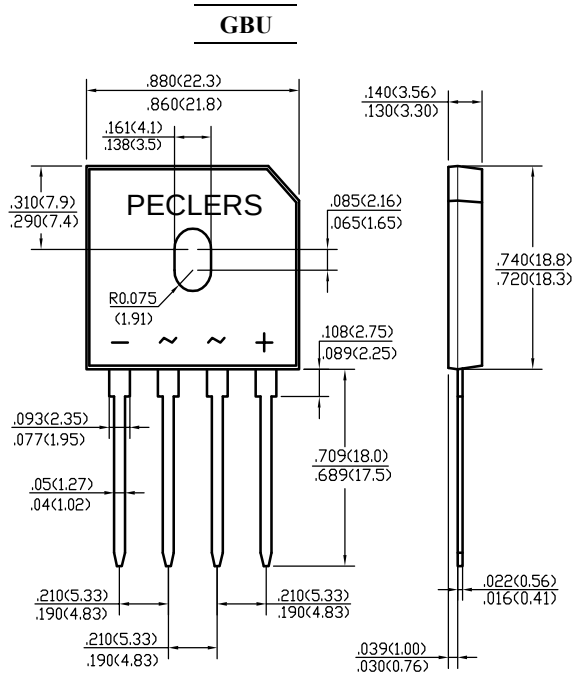
REVERSE VOLTAGE: 50 to 1000 VOLTS
FORWARD CURRENT: 15.0 AMPERE

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	GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510	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	I _(AV)	15.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	240							Amp
Maximum Forward Voltage at 7.5A DC and 25 °C	V _F	1.0							Volts
Maximum Reverse Current at T _A =25 °C at Rated DC Blocking Voltage T _A =125 °C	I _R	5.0 500							uAmp
Typical Junction Capacitance (Note 2)	C _J	70							pF
Typical Thermal Resistance (Note 1)	R _{θJC}	2.2							°C/W
Operating and Storage Temperature Range	T _J , T _{stg}	-55 to +150							°C

NOTES:

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

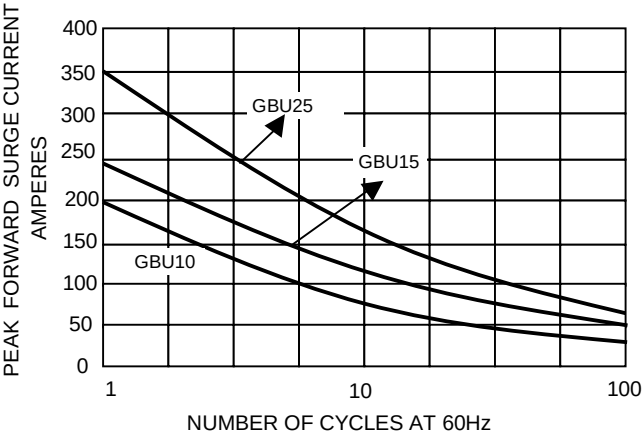


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

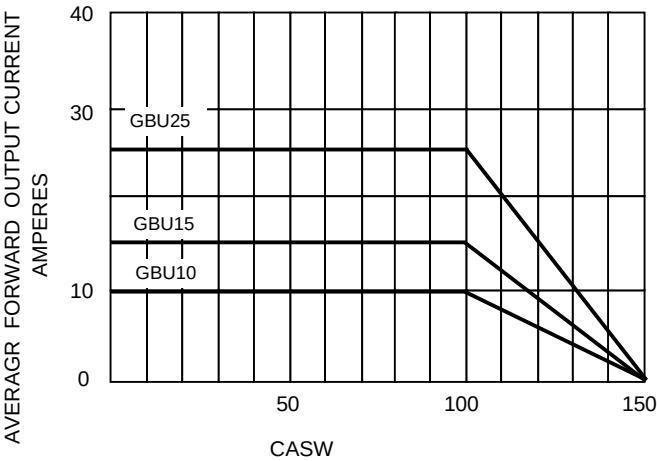


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

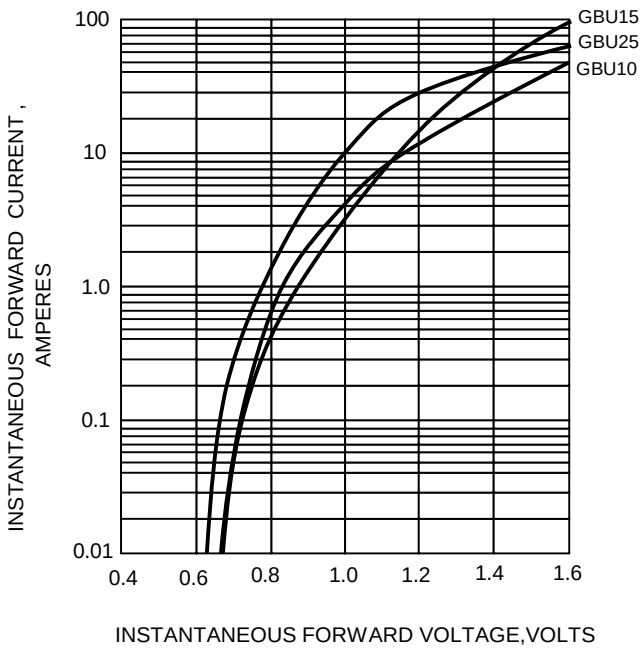


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

