



Shenzhen VSEEI Semiconductor Co., Ltd

Features

- ◆ Surge overload rating -230 amperes peak
- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ Plastic material has U/L flammability classification 94V-0

Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing shows a side view of a component with a central cylindrical feature and a chamfered edge. Dimensions are provided for various features, including diameters, radii, and lengths. A cross-section view is shown at the bottom, indicating the part is symmetrical about a vertical centerline.

Key dimensions and features:

- Top horizontal dimensions: .437(11.1), .430(10.9), .874(22.2), .860(21.8), .126(3.2)*45° CHAMFER, .139(3.53), .133(3.37)
- Left vertical dimensions: .752(19.1), .720(18.3), .073(1.85), .057(1.45)
- Right vertical dimensions: .232(5.9), .224(5.7), .401(10.2), .392(9.80)
- Bottom horizontal dimensions: .720(18.29), .680(17.27), .047(1.2), .035(0.9), .106(2.7), .091(2.3), .022(.56), .018(.46)
- Central cylindrical feature dimensions: .154(3.9), .146(3.7), .100(2.54), .085(2.16), .080(2.03), .065(1.65)
- Bottom cross-section dimensions: .210(5.3), .190(4.8), .210(5.3), .190(4.8), .210(5.3), .190(4.8)

Maximum Ratings And Electrical Characteristics

Dimensions in inches and (millimeters)

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510	UNITS
Marking Code									
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward(with heatsink NOTE 2) Rectified current @T _c =100°C(without heatsink)	I _(AV)	15.0 3.2							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	230							A
Rating for Fusing(t<8.3ms)	I ² t	219							A ² s
Maximum forward voltage at 7.5A DC	V _F	1.1							V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	5 0.5							μ A mA
Typical Junction Capacitance (Note 1)	C _J	70							pF
Typical Thermal Resistance (Note 2)	R _{θ JA}	2.2							°C/W
Operating junction temperature range	T _J	-55 to +150							°C
storage temperature range	T _{STG}	-55 to +150							°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 100mm*100mm*1.6mm cu plate heatsink.
3. The typical data above is for reference only.

Ratings And Characteristic Curves

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

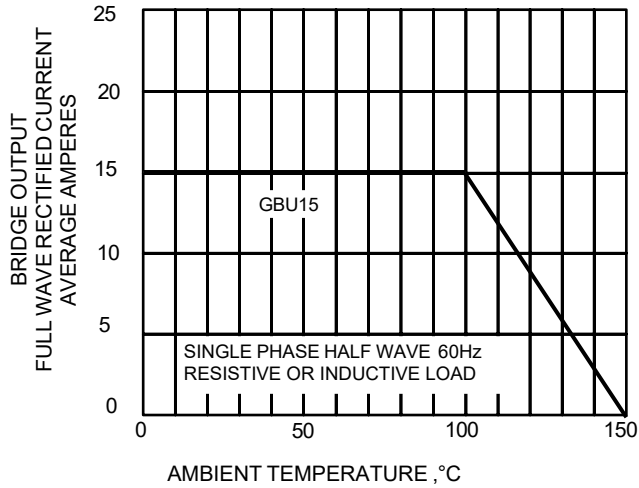


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

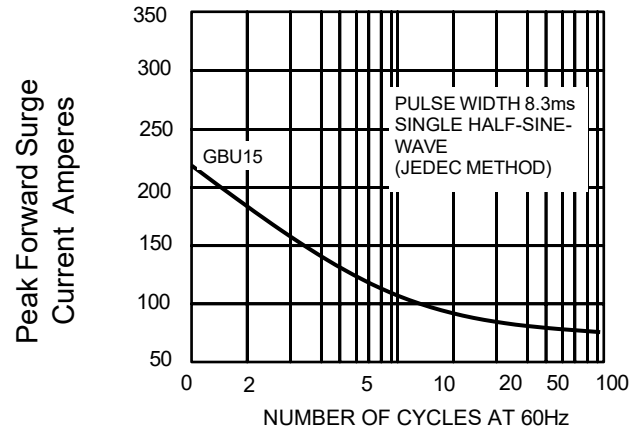


FIG.3-TYPICAL REVERSE
CHARACTERISTICS

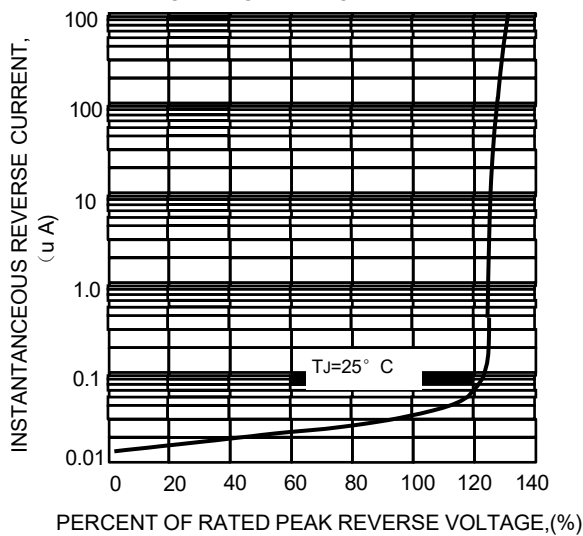
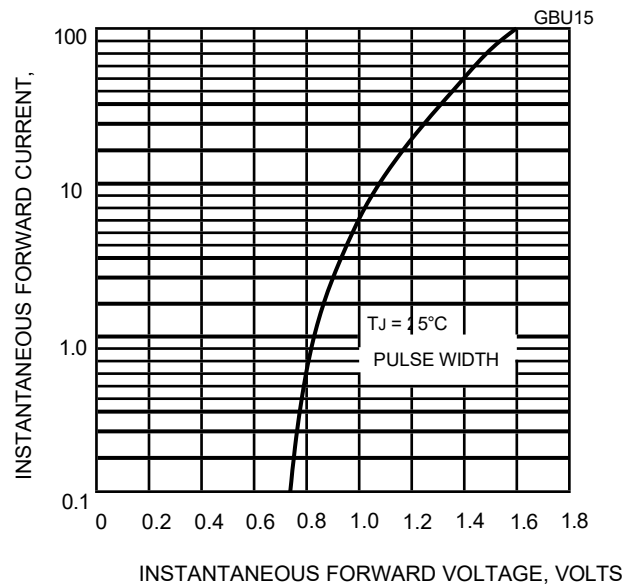


FIG.4-TYPICAL FORWARD CHARACTERISTICS



The cruve graph is for reference only