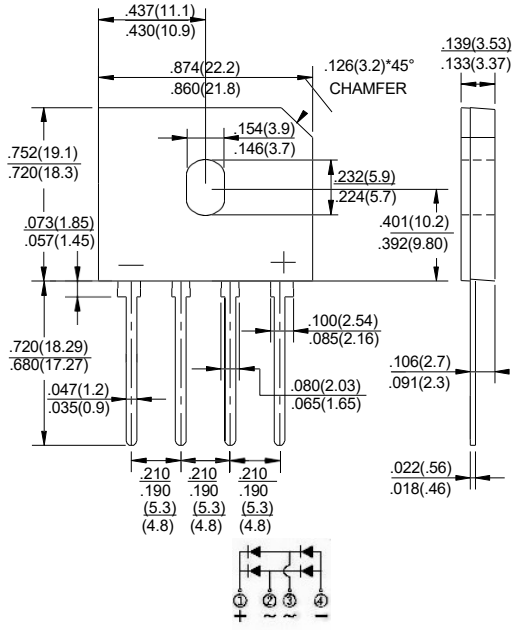
GLASS PASSIVATED BRIDGE RECTIFIERS

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 lammability classification 94V-0

GBU



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwisespecified.

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

Parameter / Marking Code	SYMBOLS	GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510	UNITS
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^2t	219							A^2s
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							μA mA
Typical Junction Capacitance (Note 1)	C_J	70							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	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

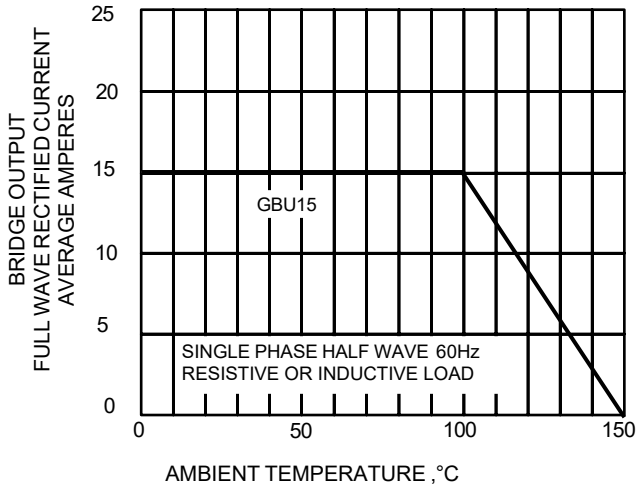


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

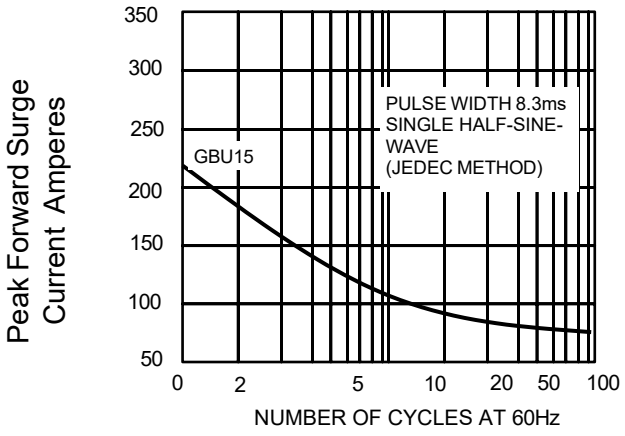


FIG.3-TYPICAL REVERSE
CHARACTERISTICS

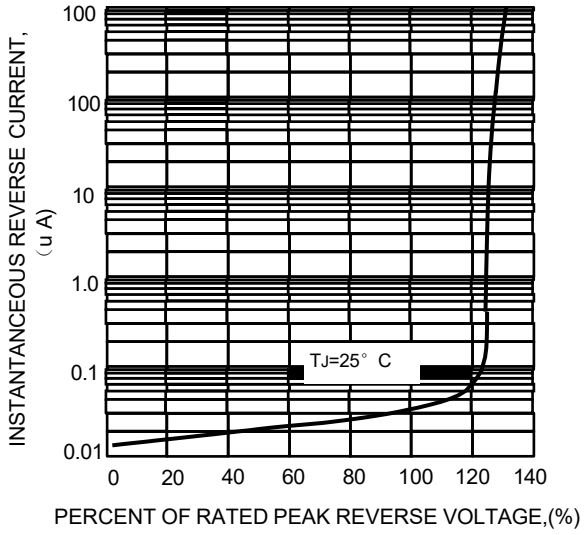
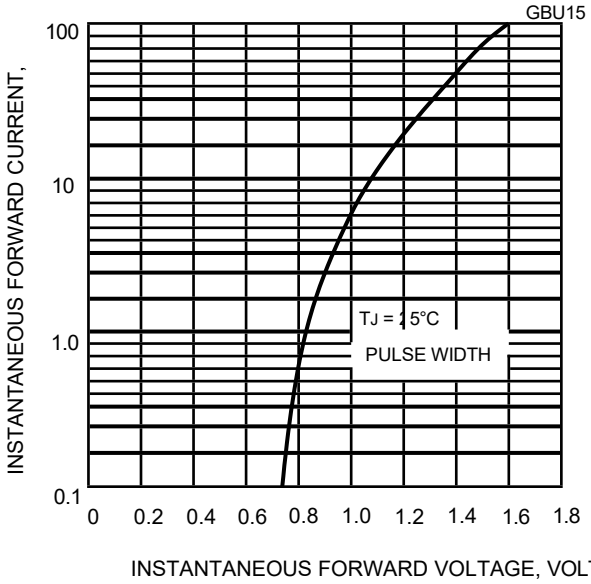


FIG.4-TYPICAL FORWARD CHARACTERISTICS



The cruve graph is for reference only