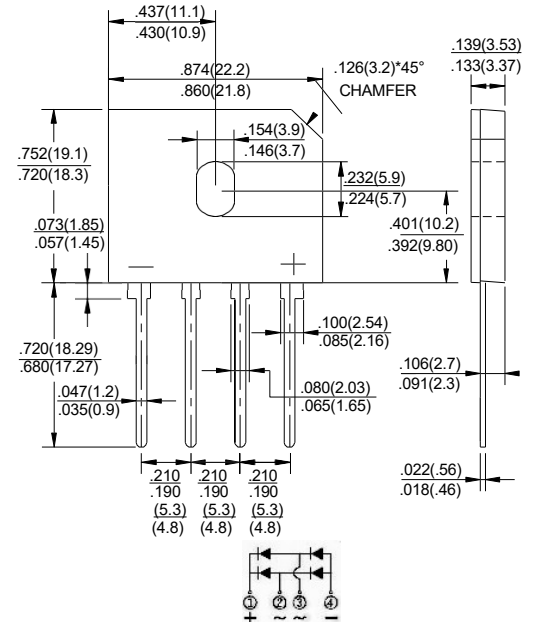


GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- ◆ Surge overload rating -350 amperes peak
- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ Plastic material has U/L flammability classification 94V-0

GBU



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									
	S Y M B O L S	G B U 2 5 0 0 5	G B U 2 5 0 1	G B U 2 5 0 2	G B U 2 5 0 4	G B U 2 5 0 6	G B U 2 5 0 8	G B U 2 5 1 0	U N I T S
Maximum repetitive peak reverse voltage	V _{R R M}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{R M S}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{D C}	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)	25.0 4.2							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I F S M	300							A
Rating for Fusing(t<8.3ms)	I²t	508							A²s
Maximum forward voltage at 12.5A DC	V_F	1.0							V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=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 J A	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

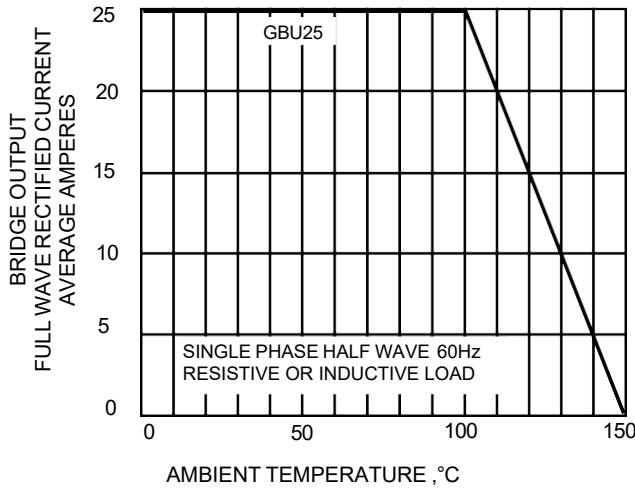


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

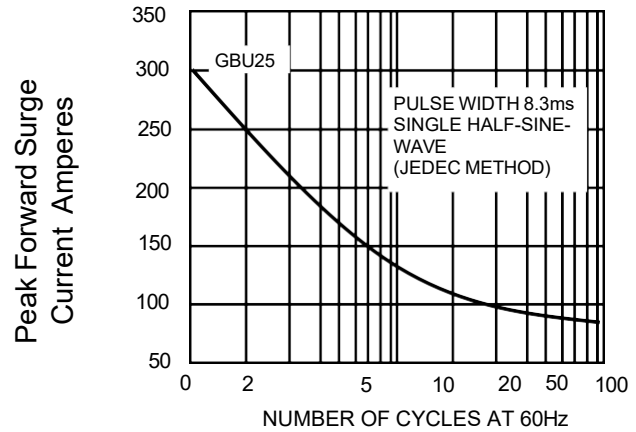


FIG.3-TYPICAL REVERSE
CHARACTERISTICS

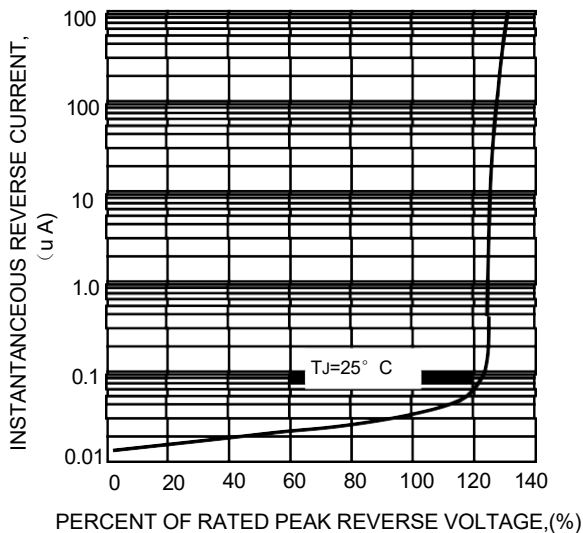
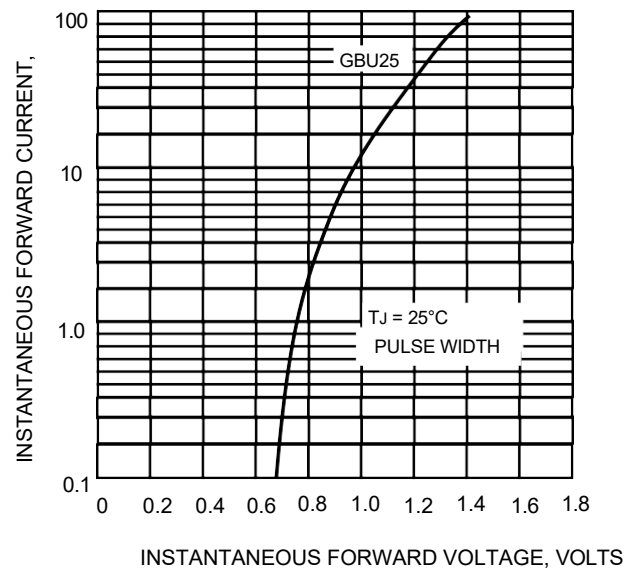


FIG.4-TYPICAL FORWARD CHARACTERISTICS



The cruve graph is for reference only