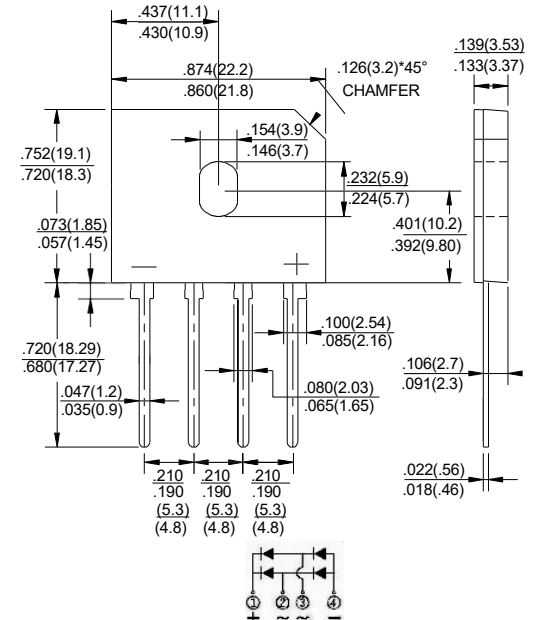


GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- ◆ Surge overload rating -150 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									
	SYMBOLS	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	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)	4.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	135							A
Rating for Fusing(t<8.3ms)	I ² _t	76							A ² s
Maximum forward voltage at 4.0A DC	V _F	1.1							V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I _R	10							uA
		0.5							mA
Typical Junction Capacitance (Note 1)	C _J	45							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 75mm*75mm*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

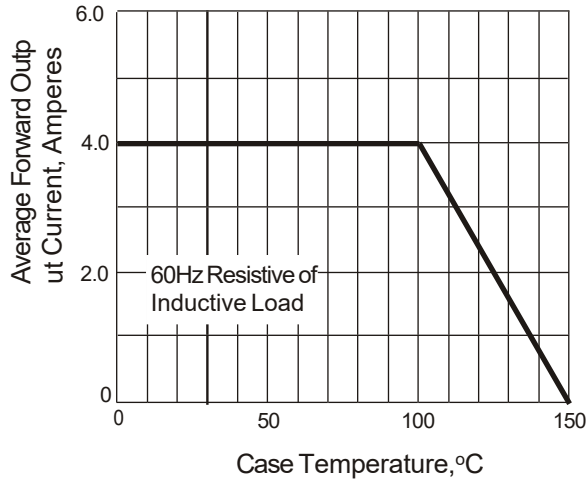


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

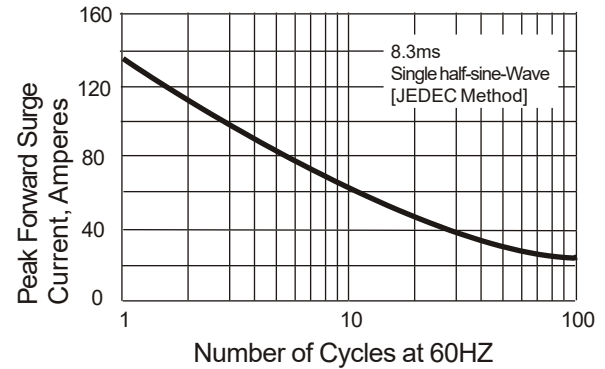


Fig. 3 Typical Instantaneous Forward Characteristics

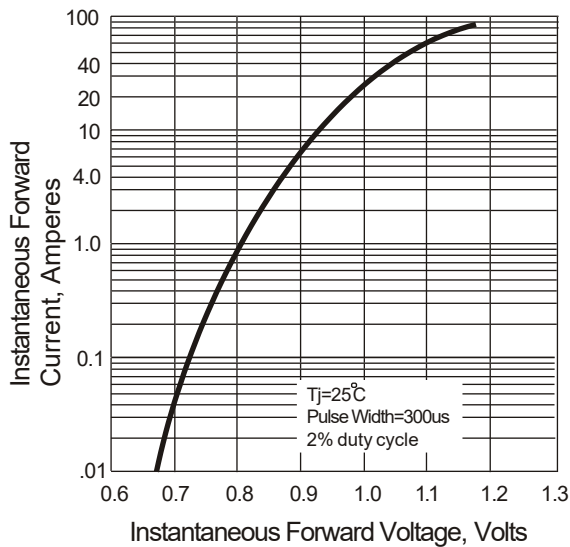


Fig. 4 Typical Reverse Characteristics

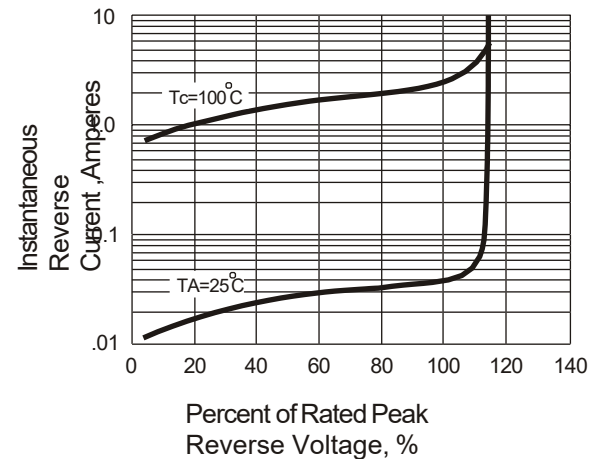
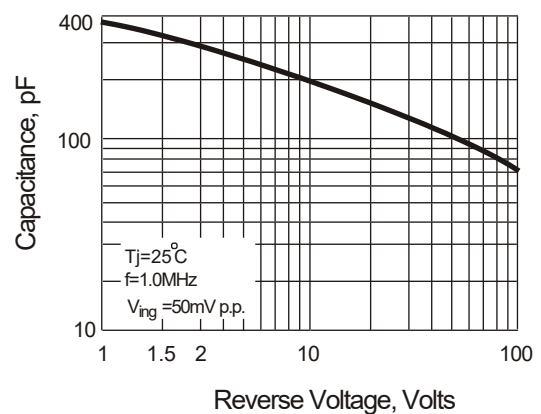


Fig. 5 Typical Junction Capacitance



The curve above is for reference only.