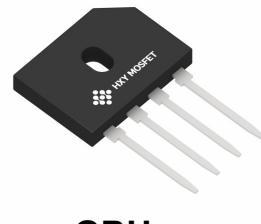




## Features

- Ideal for P.C. Board mounting
- High surge current capability
- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension

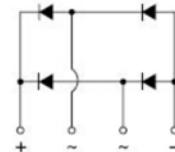


**GBU**

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
GBU4005_HF ~GBU410_HF	GBU	GBU4xx	500

xx: From 005-10



## Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=100°C	IF(AV)					4.0			A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM					150			A
Rating for fusing ( t<8.3ms)	I <sup>2</sup> t				93				A <sup>2</sup> sec
Typical thermal resistance per element(1)	ReJA				2.2				°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>				-55 to + 150				°C

## Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate by 20 %.

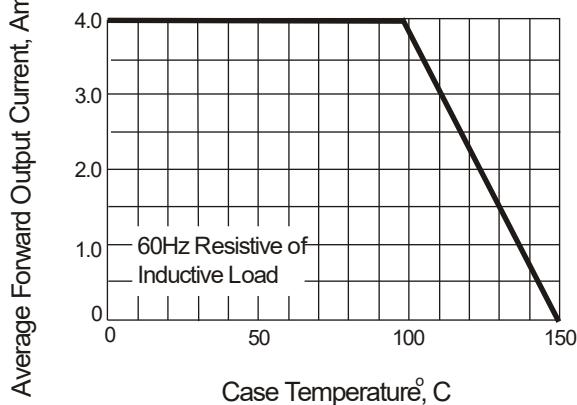
Parameter	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Maximum instantaneous forward voltage drop per leg at 4.0A	VF				1.1				V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR				5.0	500			μA

**Notes:** (1)Thermal resistance from Junction to Ambert on P.C.board mounting.

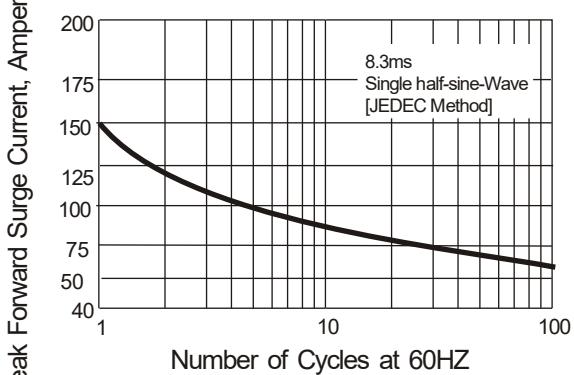


## Rating and Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

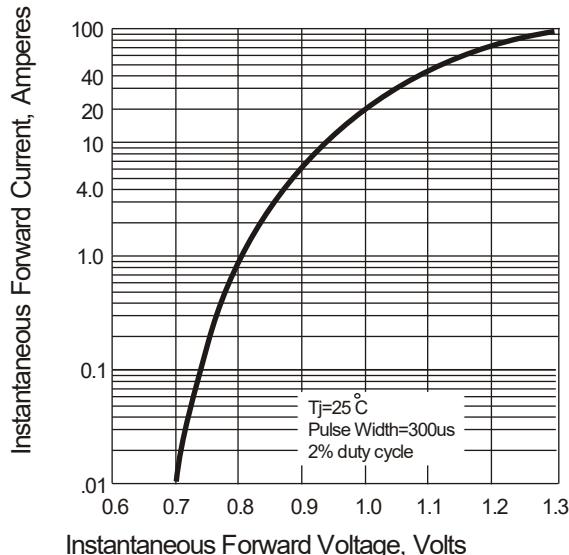
**Fig. 1 Derating Curve for Output Rectified Current**



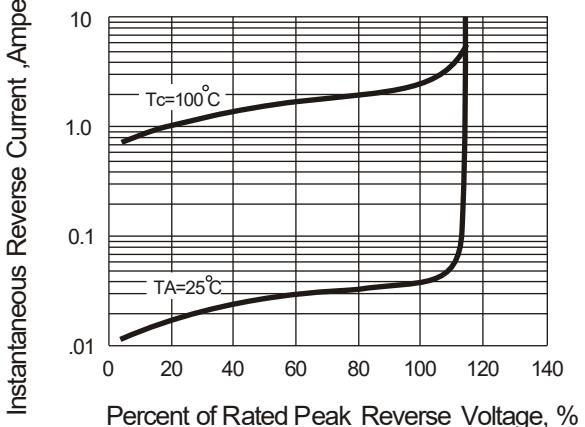
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



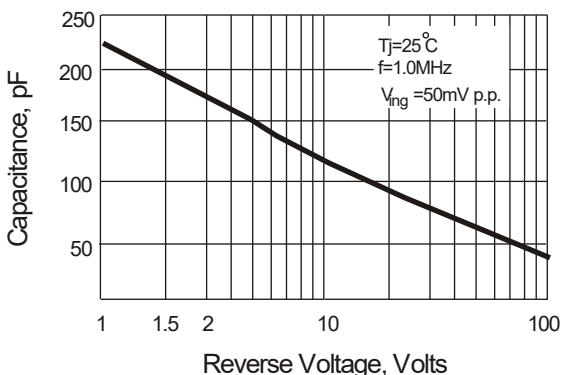
**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 4 Typical Reverse Characteristics**



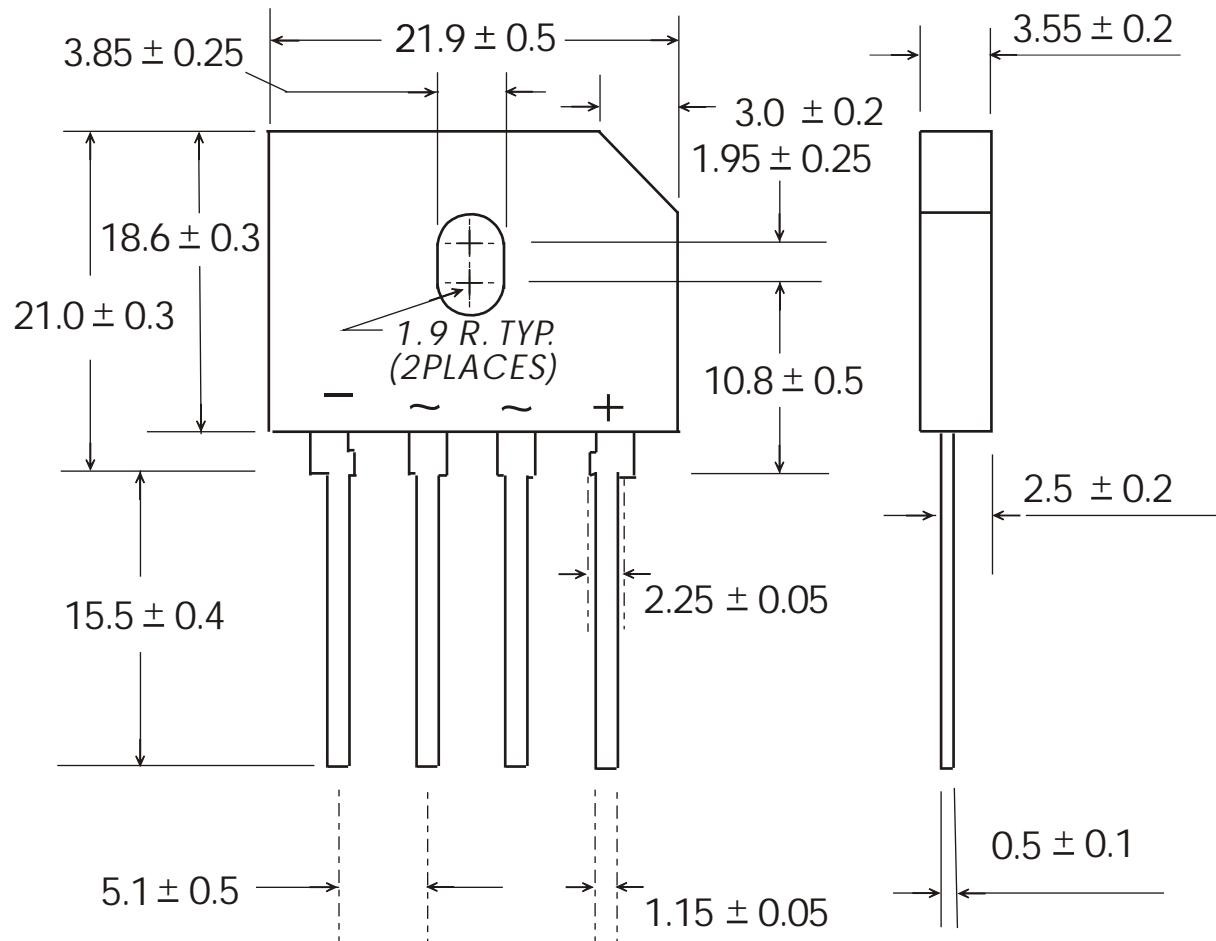
**Fig. 5 Typical Junction Capacitance**





### Package Outline Dimensions

GBU





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