

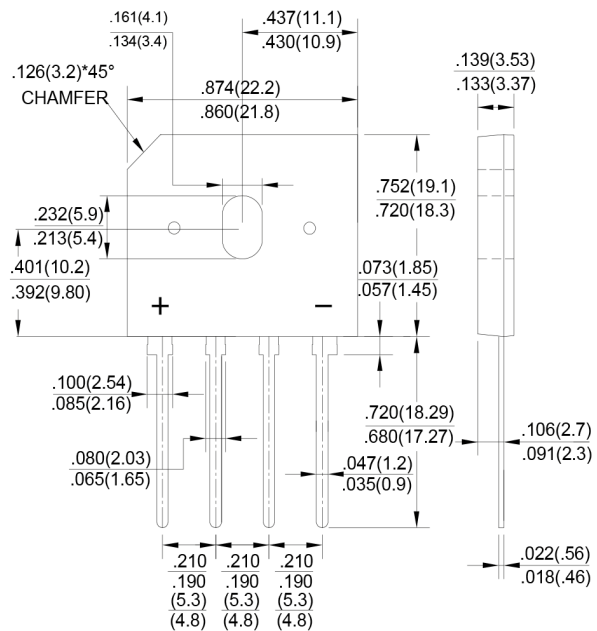
## GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts  
FORWARD CURRENT - 4.0 Amperes

### 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
- Mounting position:Any

### GBU



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

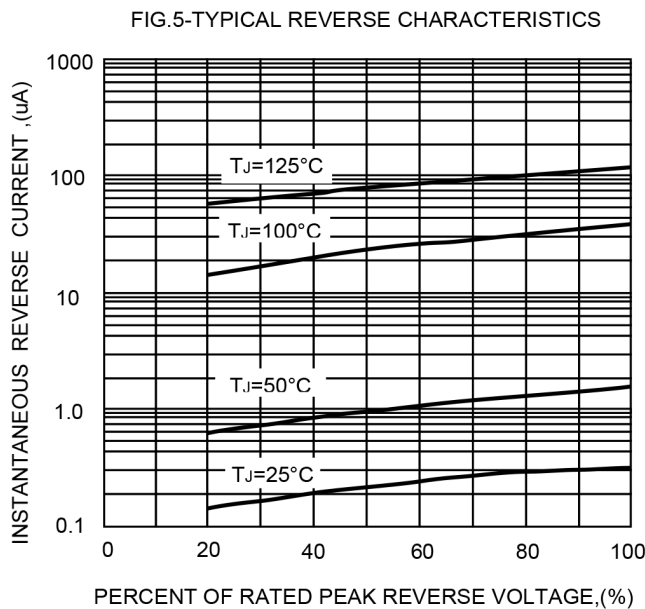
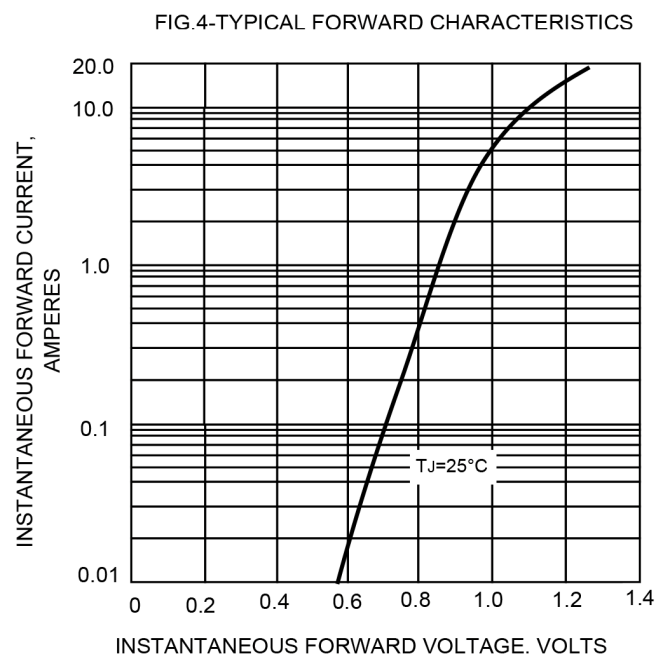
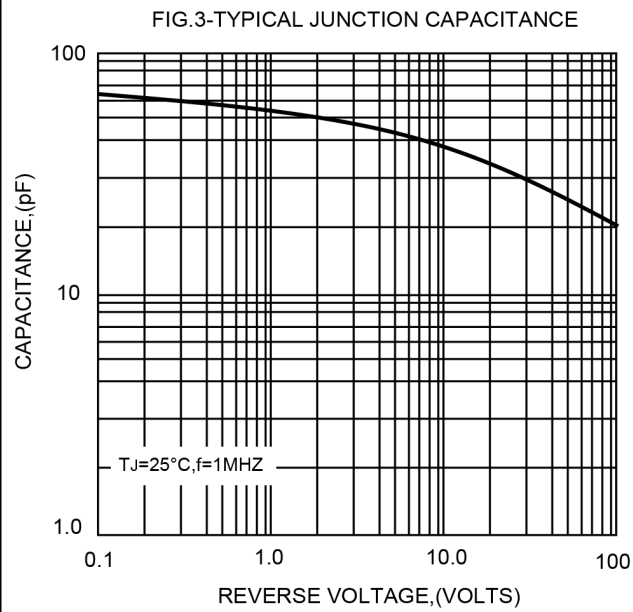
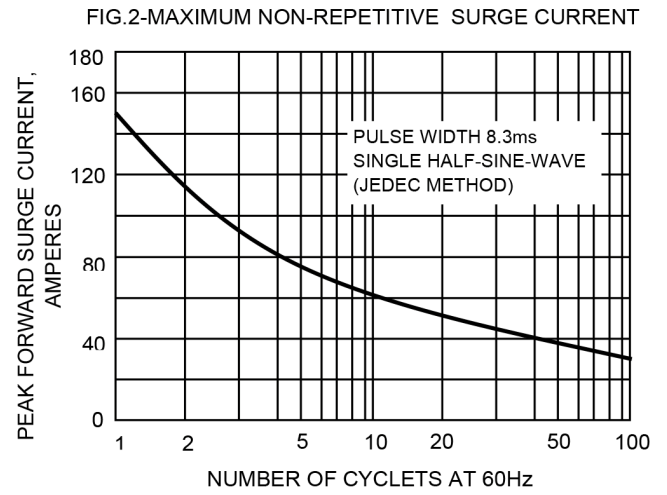
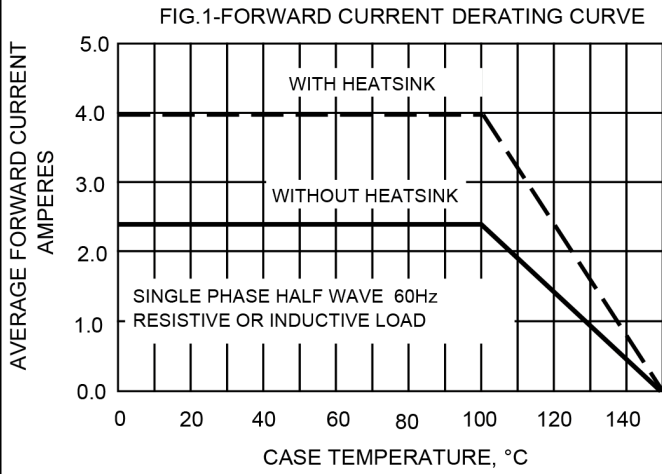
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	UNIT
Maximum Recurrent 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 @ $T_C=100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$					4.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$					150			A
Maximum Forward Voltage at 2.0A DC	$V_F$					1.0			V
Maximum Forward Voltage at 4.0A DC	$V_F$					1.1			V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$	$I_R$					10.0			$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t<8.3\text{ms}$ )	$I^2t$					93			$\text{A}^2\text{s}$
Typical Junction Capacitance Per Element (Note1)	$C_J$					45			pF
Typical Thermal Resistance	$R_{\theta JC}$					2.2			$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$					-55 to +150			$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$					-55 to +150			$^\circ\text{C}$

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 50mm\*50mm\*1.6mm Cu plate heatsink.

3.The typical data above is for reference only(典型值仅供参考).



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!