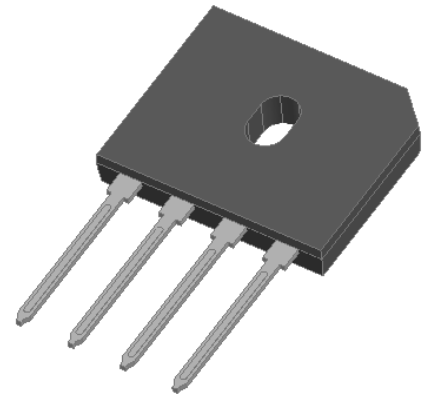




**Bridge Rectifiers**  
**Reverse Voltage600-1000v**  
**Forward current-8A**

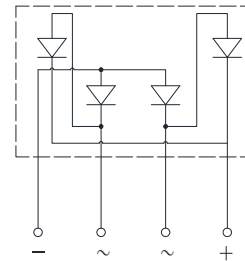
**Features**

Glass passivated chip  
High surge current capability  
Ideal for surface mounted applications  
Low power loss, high efficiency  
Plastic Case Material has UL Flammability



**Mechanical Data**

Package: GBU  
Terminals: Tin Plated leads, solderable per  
Mil-STD-750 Method 2026  
Polarity: As marked  
Molding compound meets UL 94 V-0 flammability rating,  
ROHS-compliant



**Maximum Ratings (Ta=25°C Unless otherwise specified)**

Type Number	SYMBOL	GBU 806	GBU 808	GBU 810	Umit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	800	1000	V
Maximum Average Forward Rectified Current	IO <sub>(AV)</sub>	8.0			A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	150.0			A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		300.0			
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	I <sup>2</sup> t	93.4			A <sup>2</sup> S
Maximum Forward Voltage at 6.0A DC	V <sub>FM</sub>	1.1			V
Maximum Reverse Current TA = 25℃	IR	5			uA
at Rated DC Blocking Voltage TA = 125℃		100			
Typical Thermal Resistance	R <sub>QJa</sub>	75.0			℃/W
Operating Junction Temperature Range	T <sub>J</sub>	—55to+150			℃
Storage Temperature Range	T <sub>STG</sub>	—55to+150			℃



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

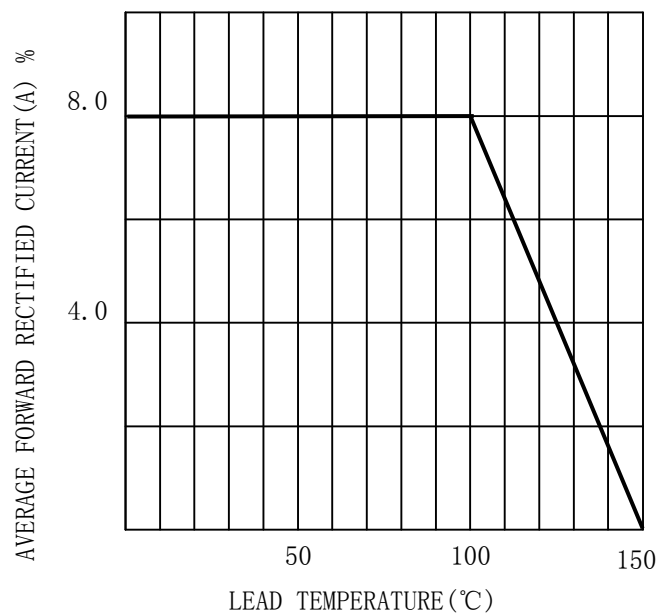


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

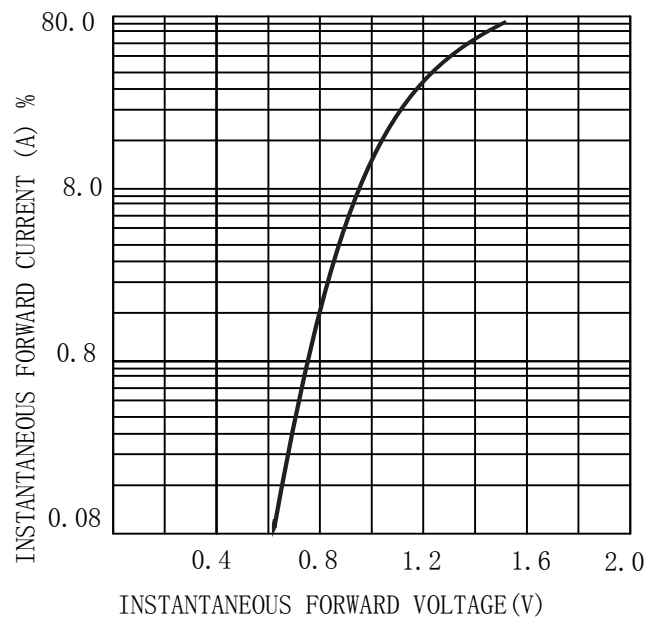


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

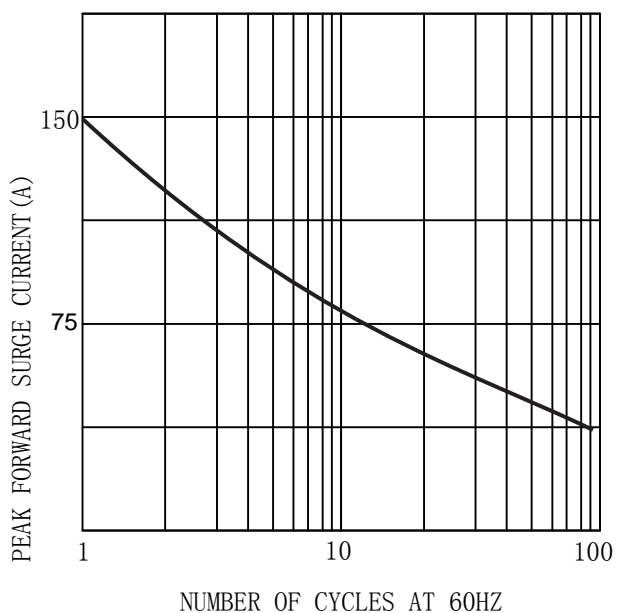
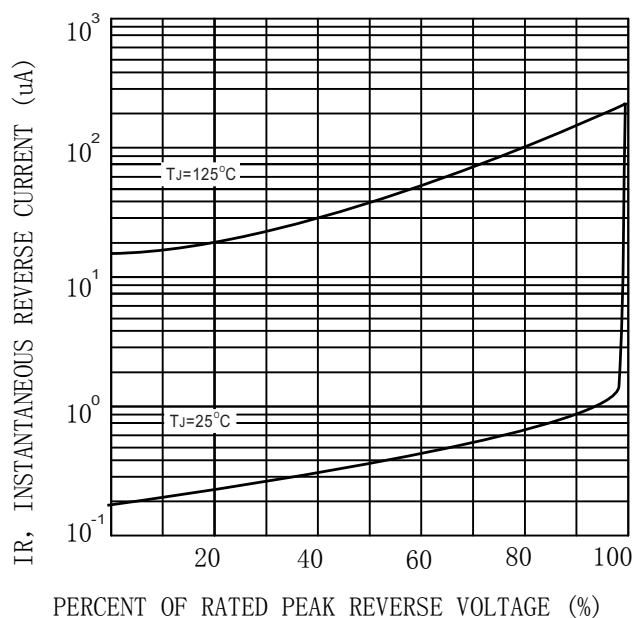
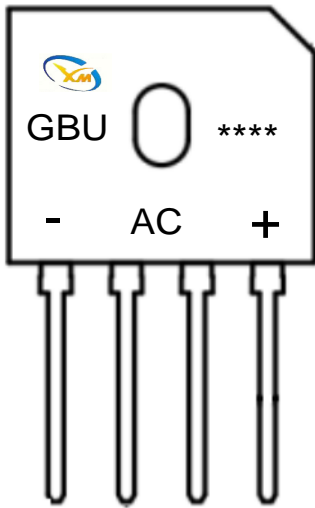


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



= Logo

GBU\*\*\*\* = Date Code Marking

Print according to customer request

## PACKING REQUIRMENTS

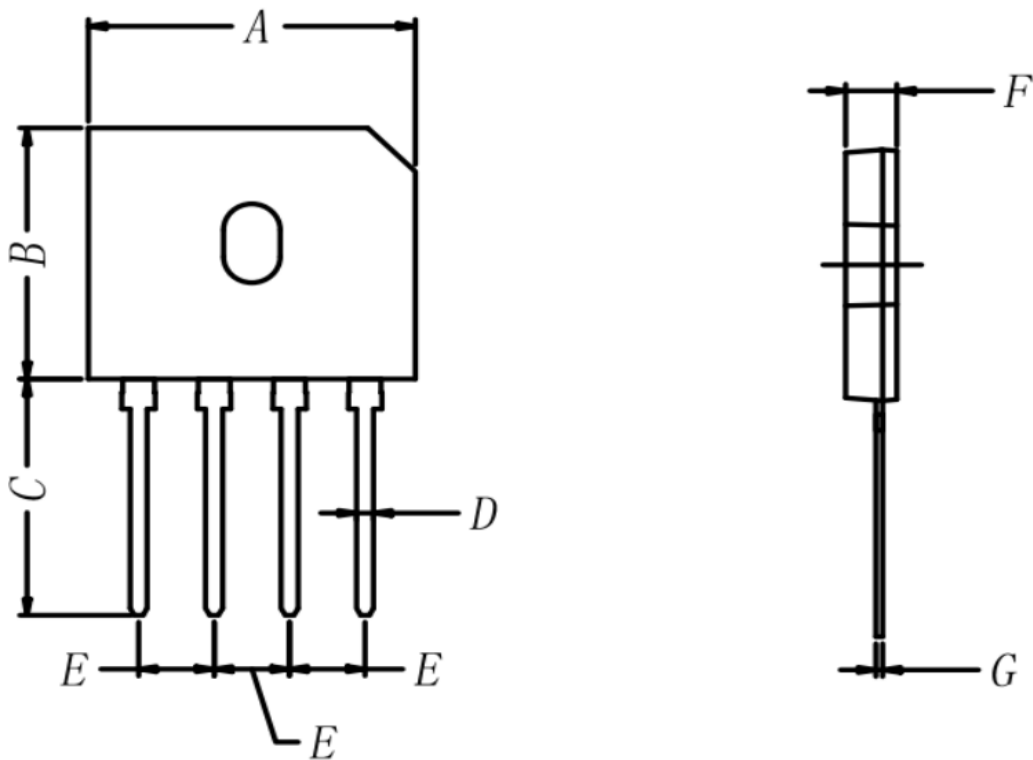
- Ps The carton packaging

DEVICE TYPE	Q'TY/REE L (pcs)	BOX/CAR TOON	Q'TY/REE L (pcs)
GBU	500	10	5000



## Outline Dimensions

GBU



GBU				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.86	0.87	21.8	22.2
B	0.72	0.74	18.3	18.7
C	0.70	0.72	17.8	18.2
D	0.04	0.05	1.05	1.25
E	0.19	0.21	4.85	5.35
F	0.13	0.14	3.3	3.6
G	0.02	0.02	0.4	0.5





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