



Bridge Rectifiers

Reverse Voltage 600-1000v

Forward current 15A

Features

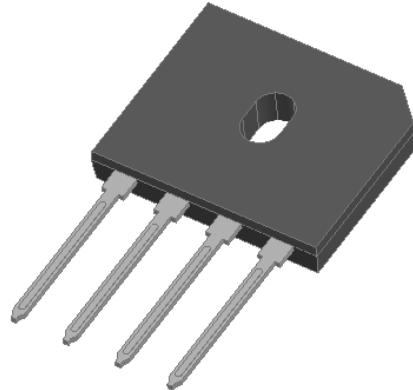
Glass passivated chip

High surge current capability

Ideal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability



Mechanical Data

Package: GBU

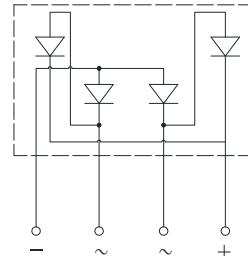
Terminals: Tin Plated leads, solderable per

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 1506	GBU 1508	GBU 1510	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{O(AV)}$	15.0			A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	180.0			A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$		360.0			
Current squared time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode	I^2t	134.5			A^2s
Maximum Forward Voltage at 15A DC	V_{FM}	1.1			V
Maximum Reverse Current $TA = 25^\circ\text{C}$ at Rated DC Blocking Voltage $TA = 125^\circ\text{C}$	IR	5			μA
Typical Thermal Resistance	R_{QJa}	100			
Operating Junction Temperature Range	T_j	-55 to +150			°C
Storage Temperature Range	T_{STG}	-55 to +150			°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

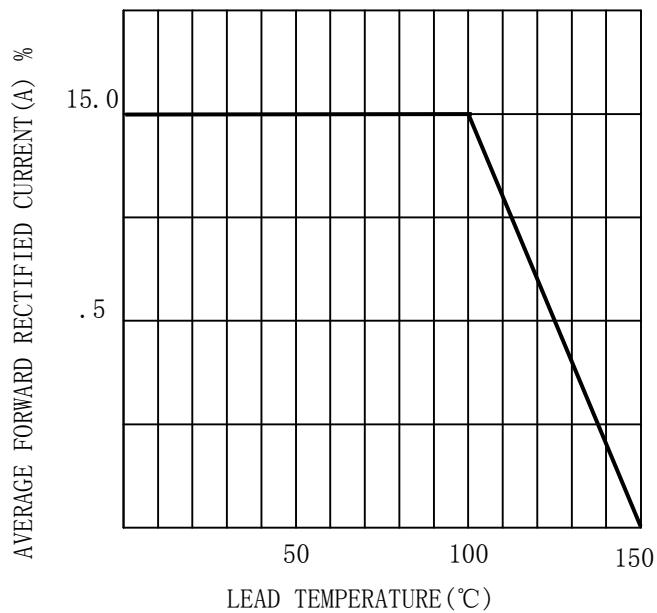


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

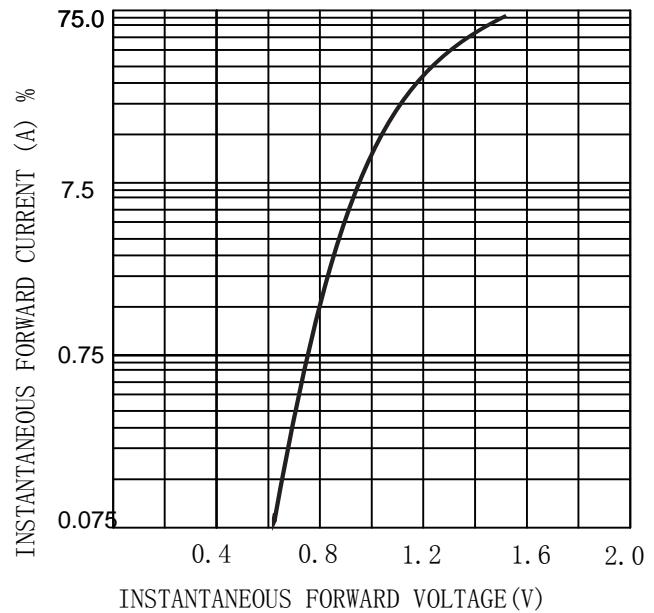


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

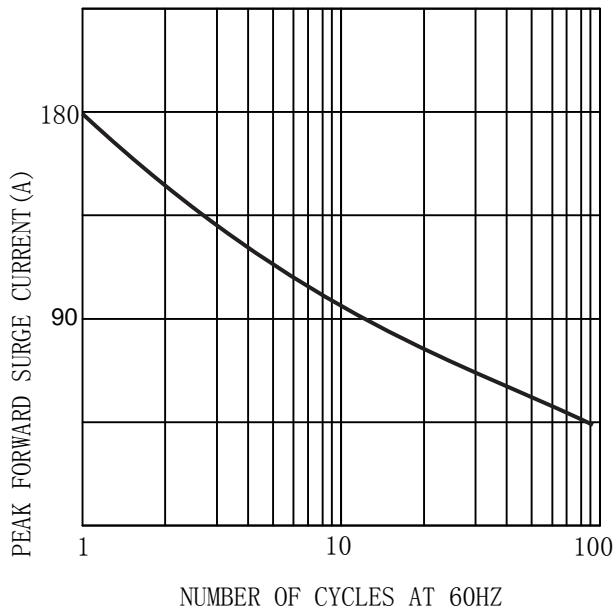
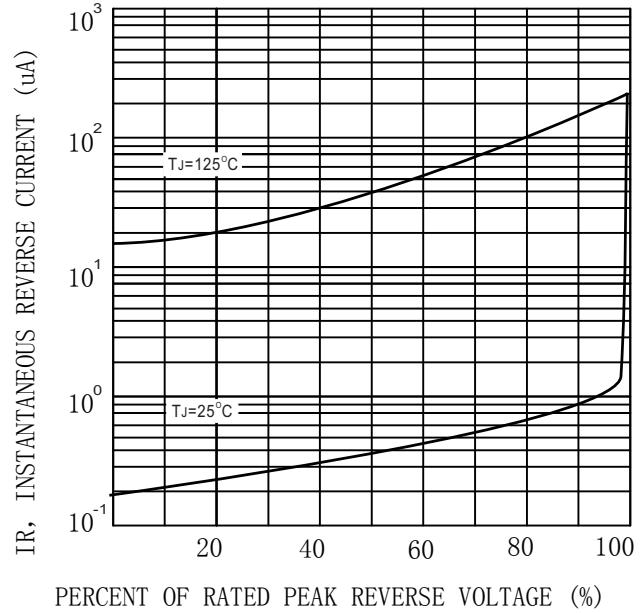
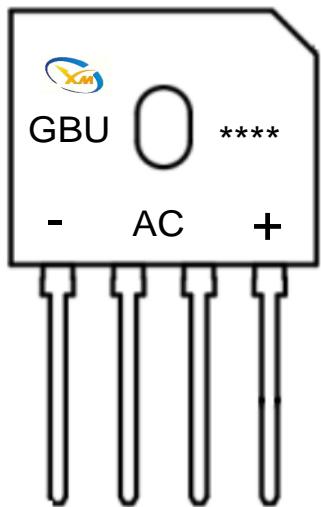


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



= Logo

GBU**** = Date Code Marking

Print according to customer request

PACKING REQUIREMENTS

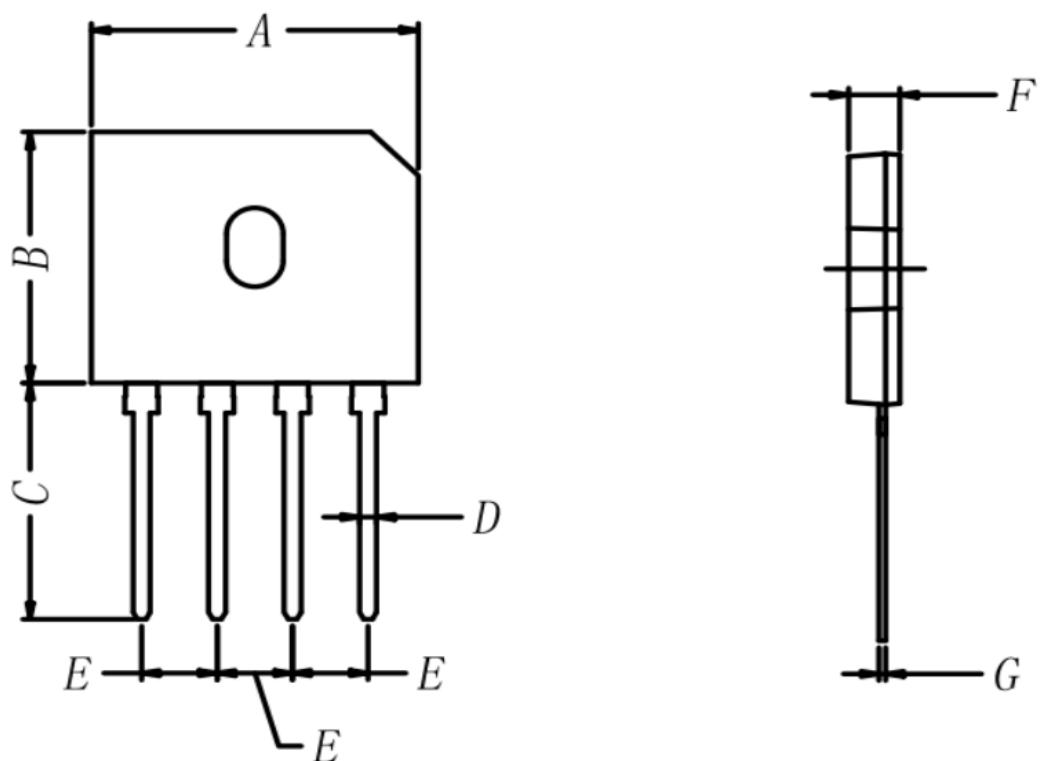
- Ps The carton packaging

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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