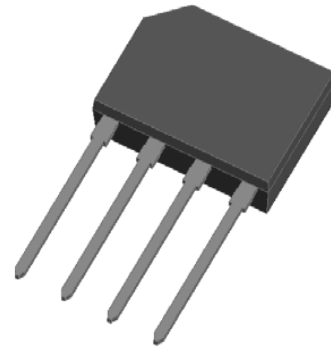




**Bridge Rectifiers**  
**Reverse Voltage 600-1000v**  
**Forward current-3A**

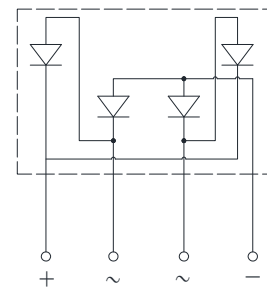
**Features**

- 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: GBP
- 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	GBP310	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Maximum Average Forward Rectified Current at $T_L = 100^\circ\text{C}$	$I_{O(AV)}$	3.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load (JEDEC Method) on rated	IFSM	60.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$		120.0	
Current squared time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode	$I^2t$	14.9	$\text{A}^2\text{S}$
Maximum Forward Voltage at 2.0A DC	$V_{FM}$	1.1	V
Maximum Reverse Current $T_A = 25^\circ\text{C}$	IR	5	$\mu\text{A}$
at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$		100	
Typical Thermal Resistance	$R_{QJa}$	75.0	$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	$T_j$	-55to+150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55to+150	$^\circ\text{C}$



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

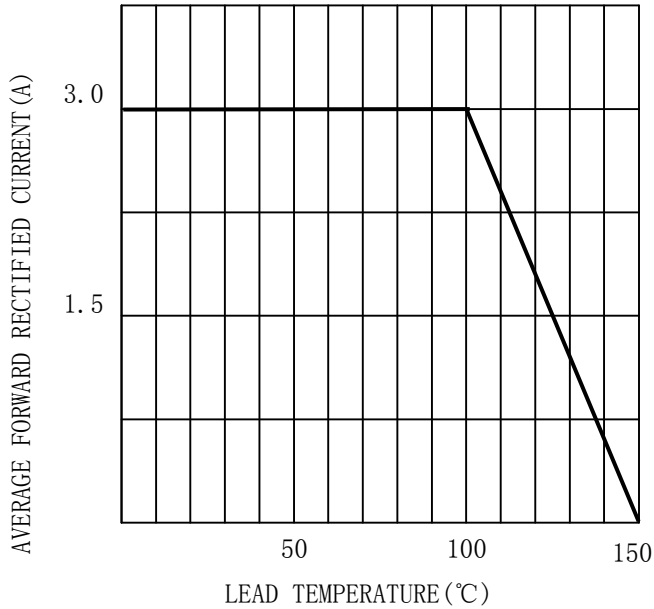


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

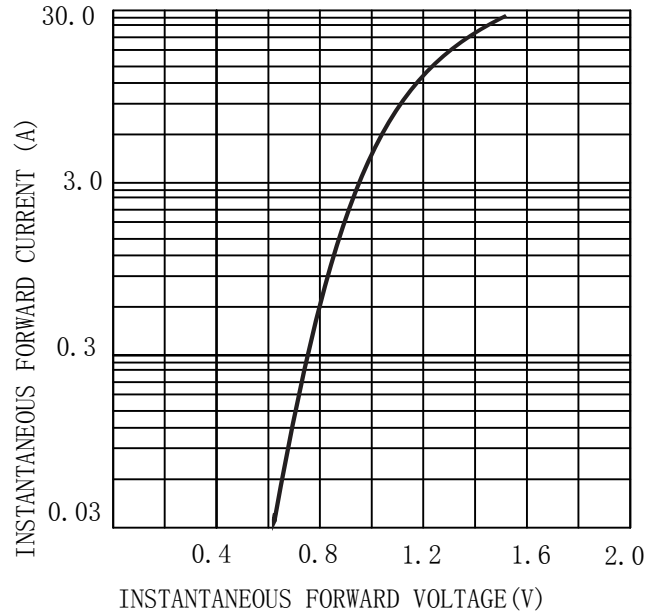


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

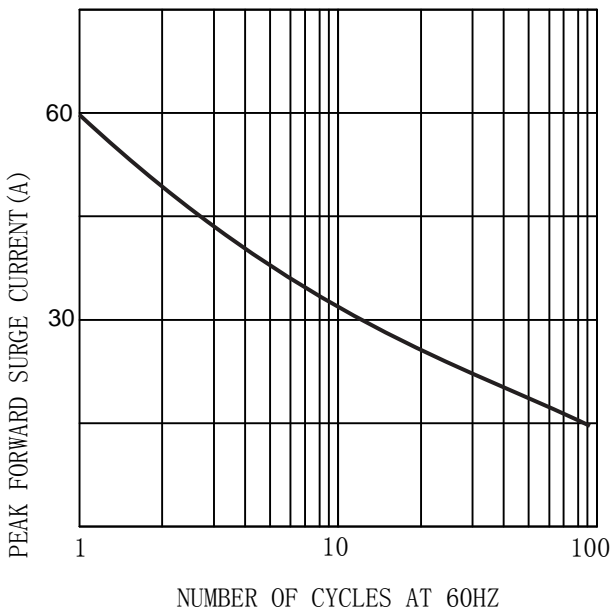
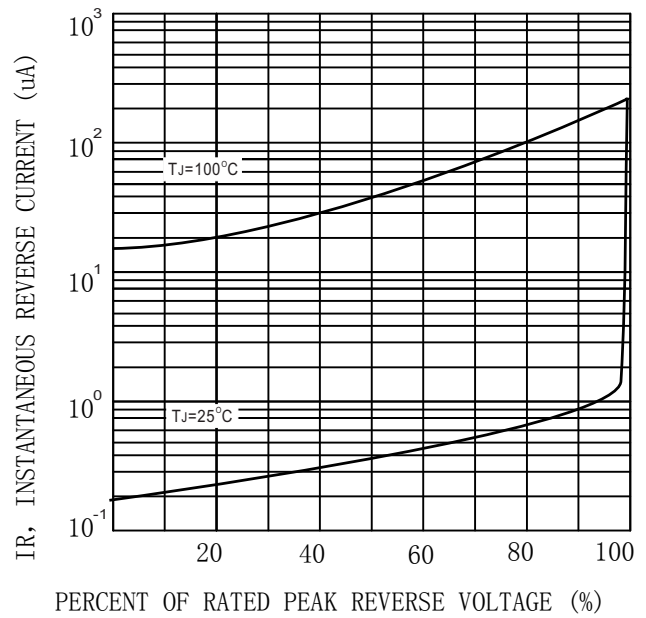
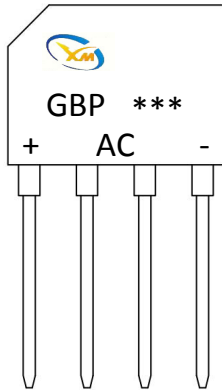



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



 = Logo

GBP\*\*\* = Marking Code

### PACKING REQUIRMENTS

- PS The carton packaging

Print according to customer request

### PACKING REQUIRMENTS

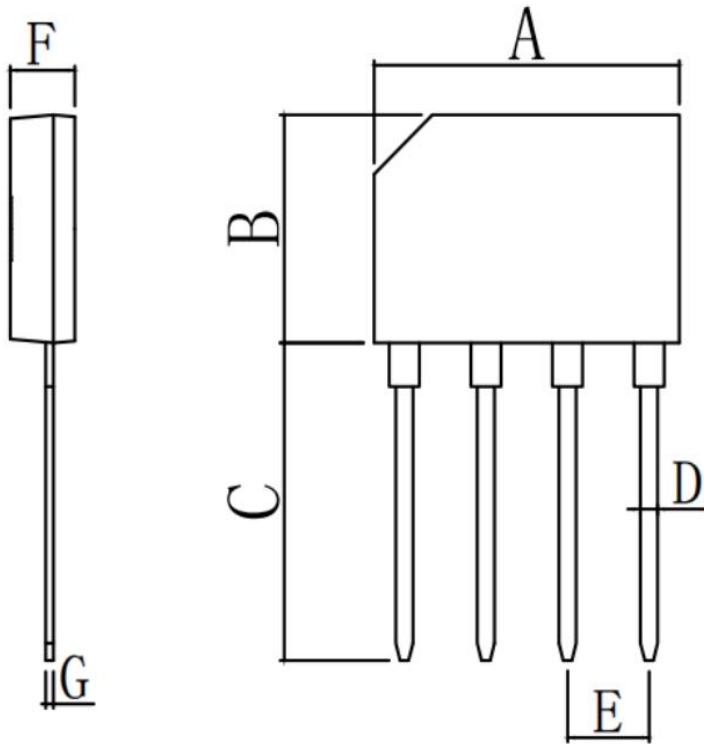
- Ps The carton packaging

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



## Outline Dimensions

GBP



GBP				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.55	0.57	14.00	14.50
B	0.40	0.42	10.20	10.60
C	0.56	0.58	14.30	14.70
D	0.03	0.03	0.70	0.80
E	0.14	0.16	3.60	4.00
F	0.11	0.13	2.80	3.20
G	0.01	0.01	0.28	0.38



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