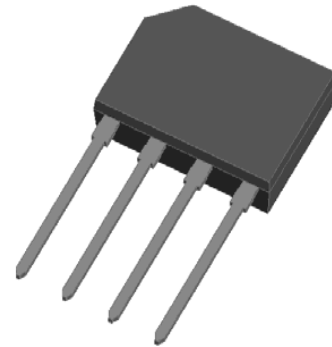




Bridge Rectifiers
Reverse Voltage1000v
Forward current-6A

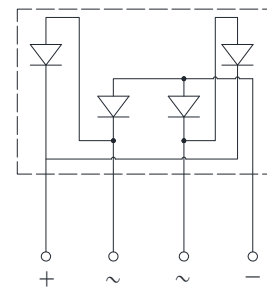
Features

- 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	GBP 610	Umit
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 TL = 100 °C	$I_{O(AV)}$	6.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	120.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		240.0	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I^2t	59.8	A ² S
Maximum Forward Voltage at 6.0A DC	V_{FM}	1.1	V
Maximum Reverse Current TA = 25°C	IR	5	uA
at Rated DC Blocking Voltage TA = 100°C		100	
Typical Thermal Resistance Between junction and ambient	R_{QJa}	47.0	°C/W
Operating Junction Temperature Range	T_J	-55to+150	°C
Storage Temperature Range	T_{STG}	-55to+150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

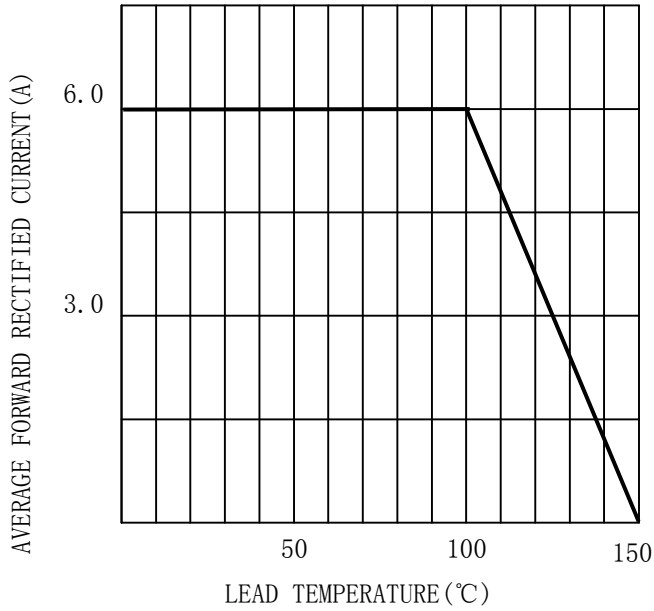


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

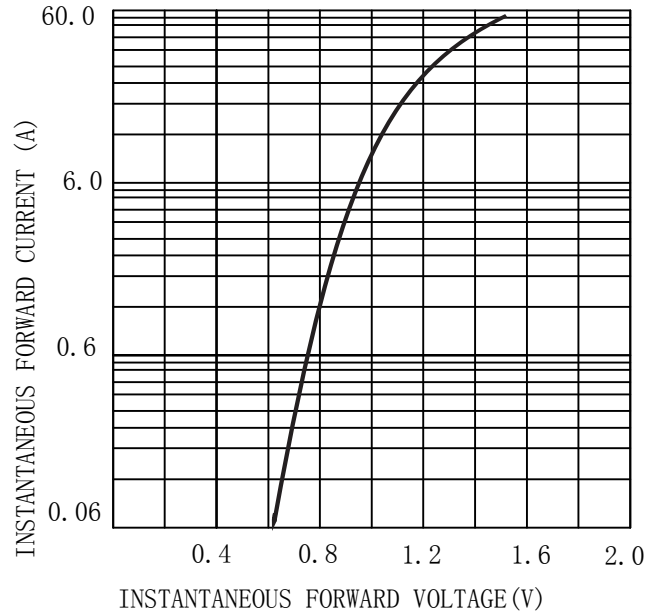


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

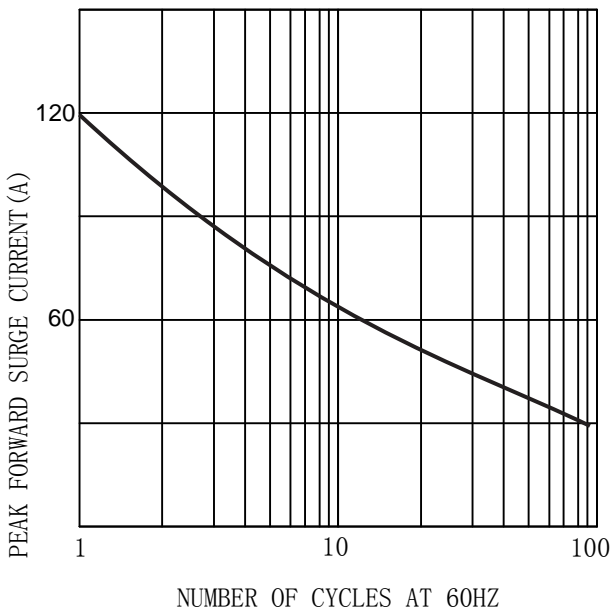
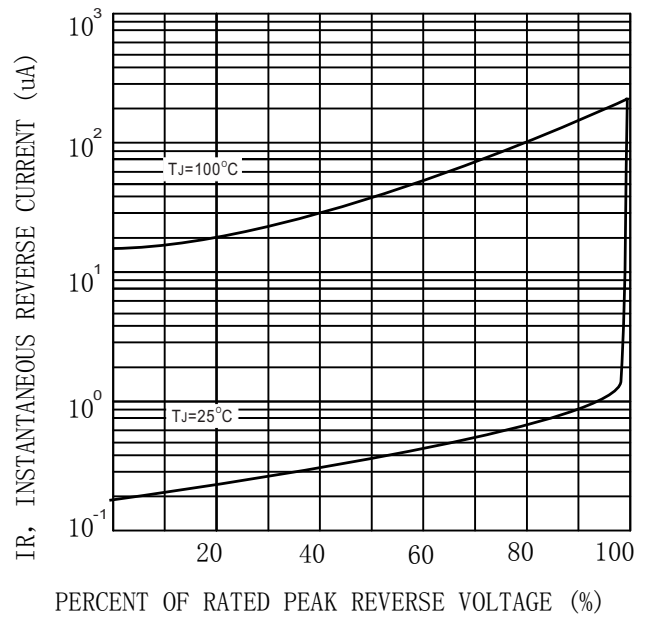
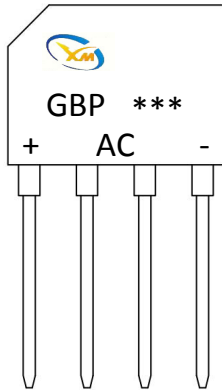



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



 = Logo

GBP*** = Marking Code

PACKING REQUIRMENTS

- PS The carton packaging

Print according to customer request

PACKING REQUIRMENTS

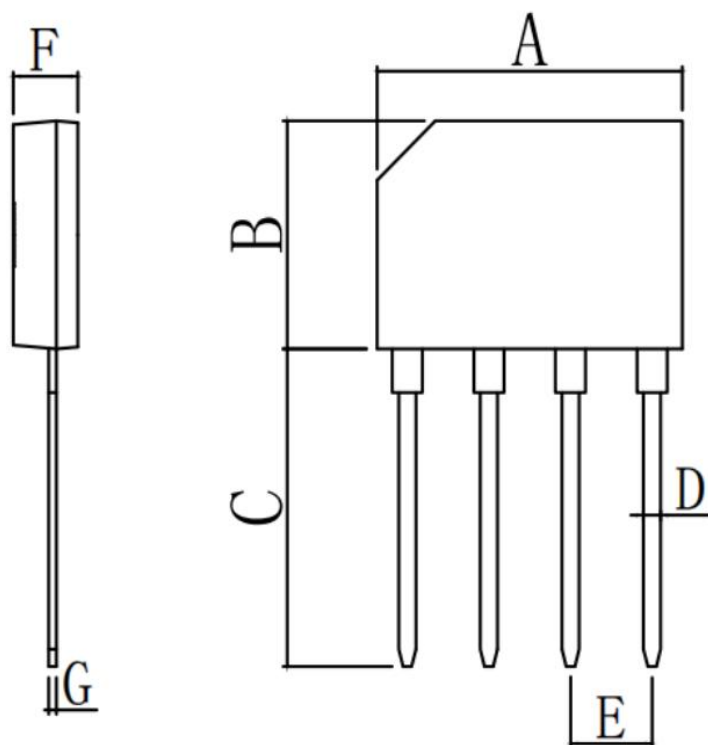
- Ps The carton packaging

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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