



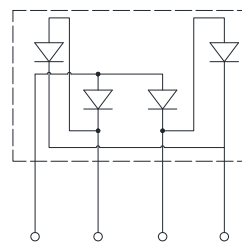
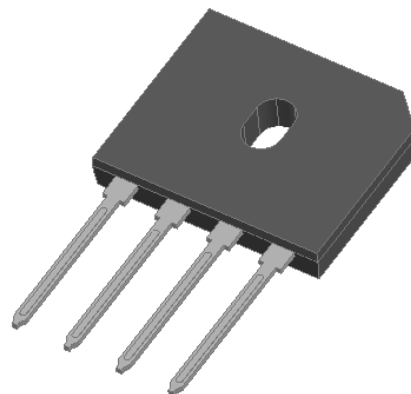
Bridge Rectifiers
Reverse Voltage1000v
Forward current-25A

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℃ Unless otherwise specified)

Type Number	SYMBOL	GBU 2510	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 $T_L = 100^\circ\text{C}$	$I_{O(AV)}$	25.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	250.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_J=25^\circ\text{C}$		500.0	
Current squared time @1ms≤t≤8.3ms $T_J=25^\circ\text{C}$, Rating of per diode	I^2t	259.4	A ² S
Maximum Forward Voltage at 12.5A DC	V_{FM}	1.1	V
Maximum Reverse Current $T_A = 25^\circ\text{C}$	IR	5	uA
at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$		100	
Typical Thermal Resistance	R_{QJA}	75.0	°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

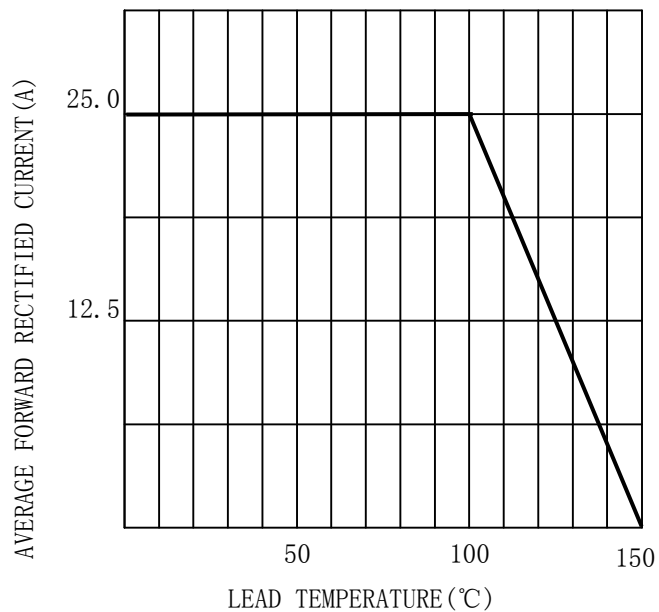


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

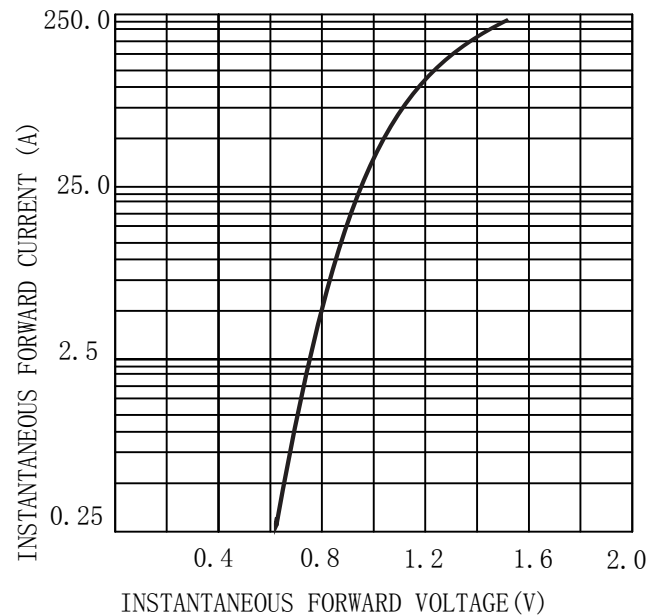


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

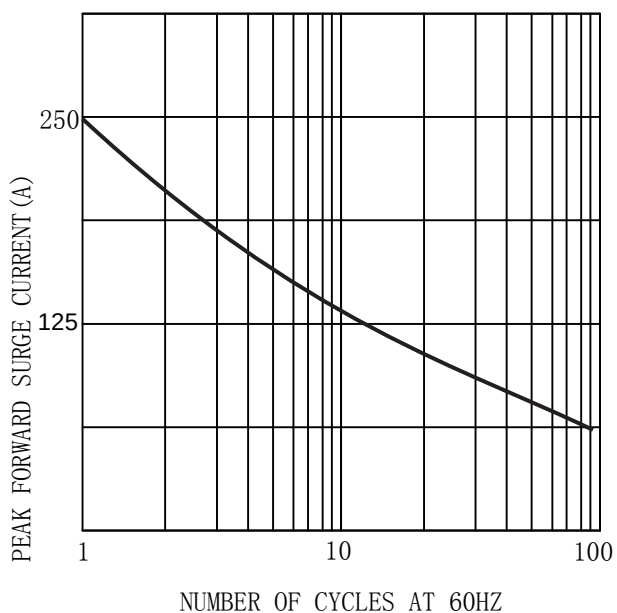
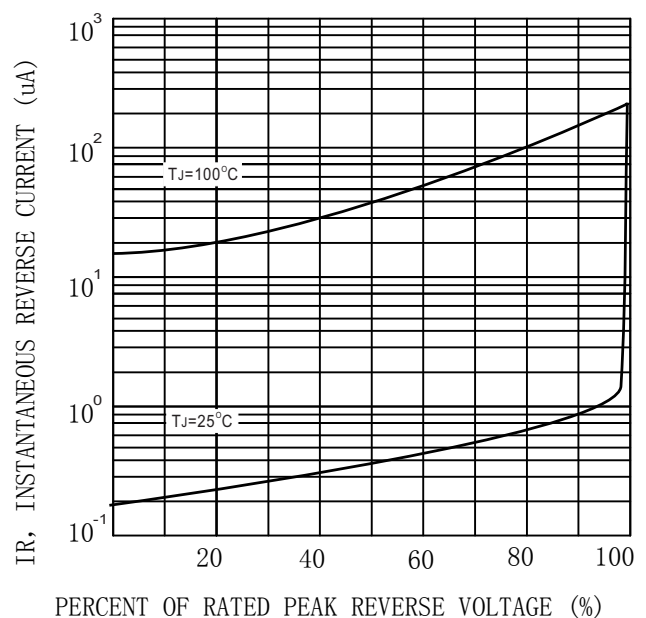
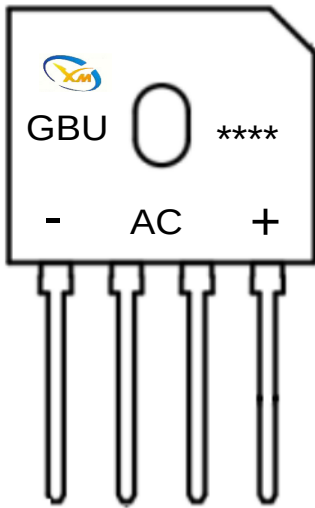


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION



= Logo

GBU**** = Date Code Marking

Print according to customer request

PACKING REQUIRMENTS

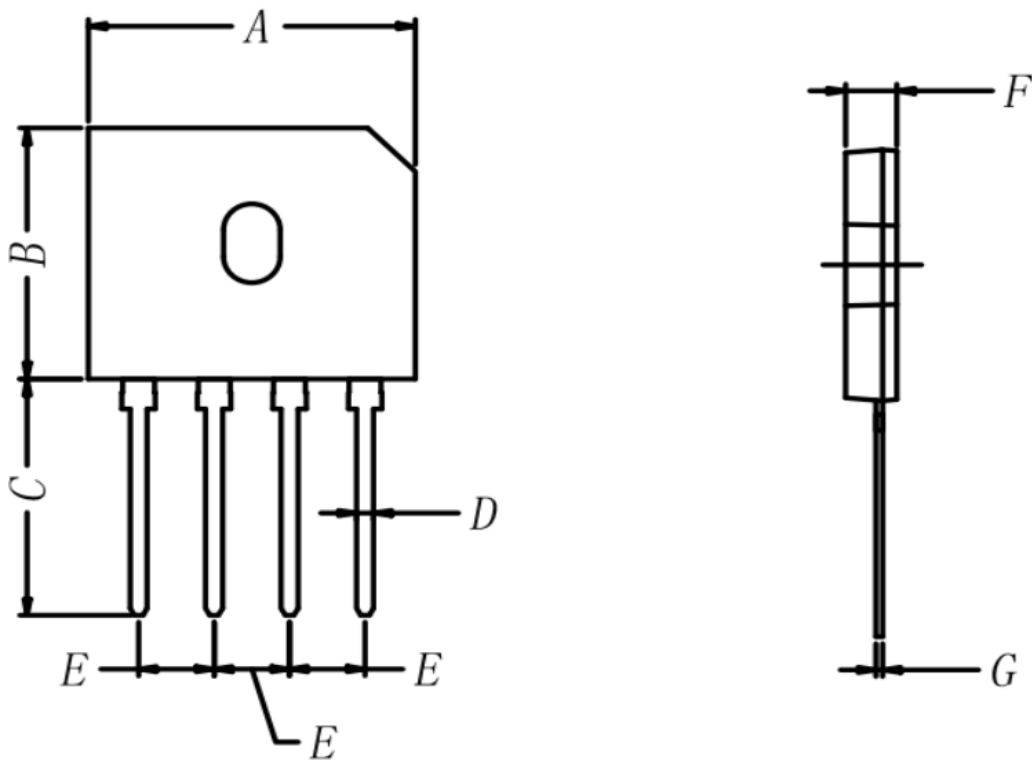
- Ps The carton packaging

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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