



Fast Recovery Bridge Rectifiers

Reverse Voltage-1000v

Forward current-25A

Features

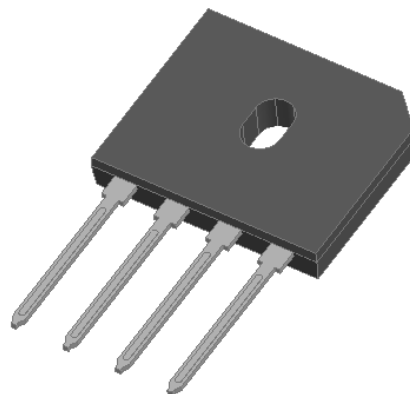
Glass passivated chip

High surge current capability

Ideal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability



Mechanical Data

Package: GBU

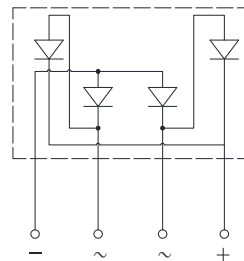
Terminals: Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant



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

Type Number	SYMBOL	RGBU2510	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	$I_{O(AV)}$	25.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	220.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		440.0	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I^2t	200.9	A ² S
Maximum Forward Voltage at 12.5A DC	V_{FM}	1.3	V
Maximum Reverse Current TA = 25°C	IR	5	uA
at Rated DC Blocking Voltage TA = 125°C		100	
Maximum reverse recovery time (IF=0.5A,IR=1.0A, Irr=0.25A)	trr	500	ns
Typical Thermal Resistance	R_{QJa}	25.0	°C/W
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	2.5	KV
Operating Junction Temperature Range	T _J	—55to+150	°C
Storage Temperature Range	T _{STG}	—55to+150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

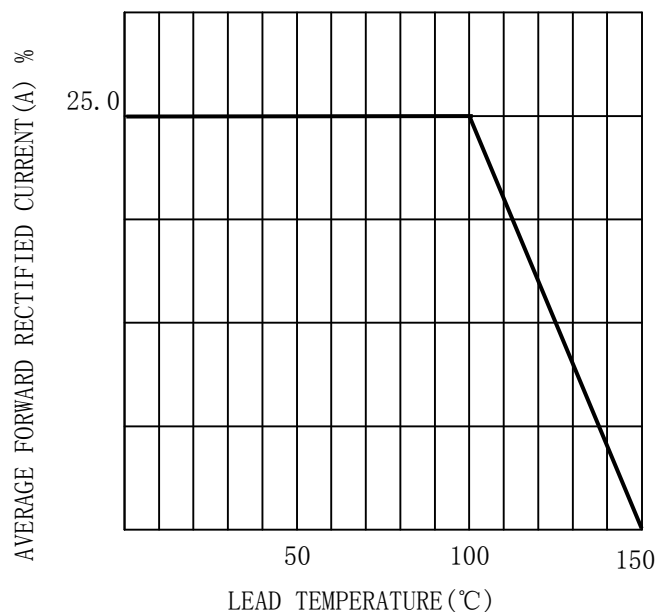


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

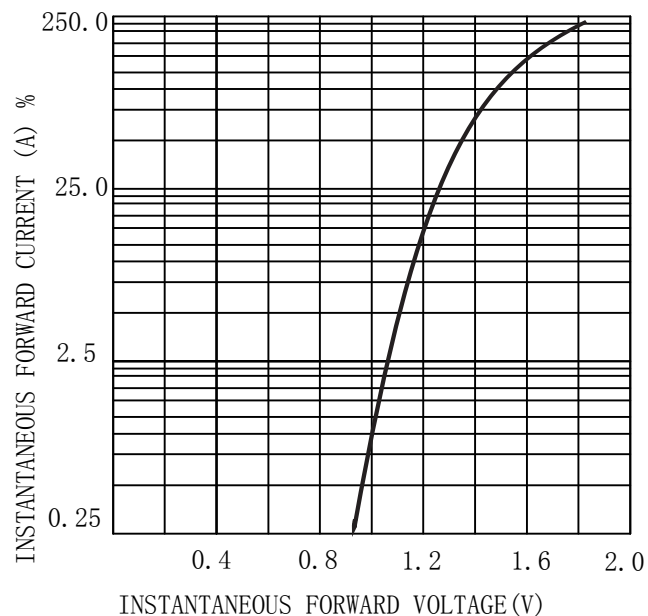


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

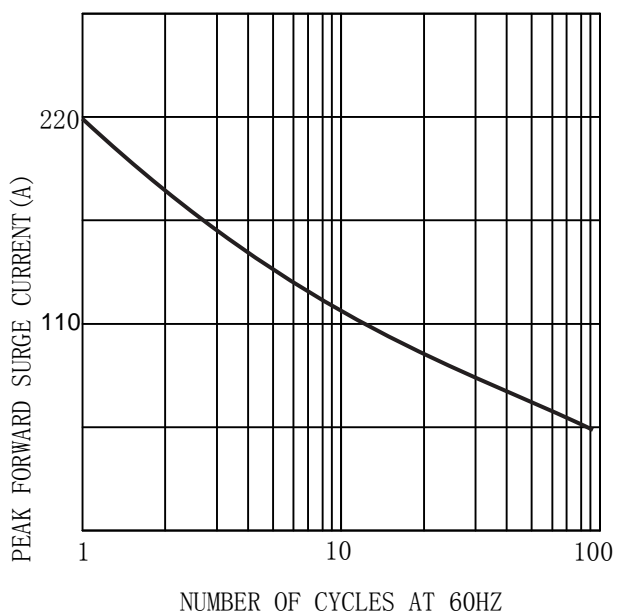
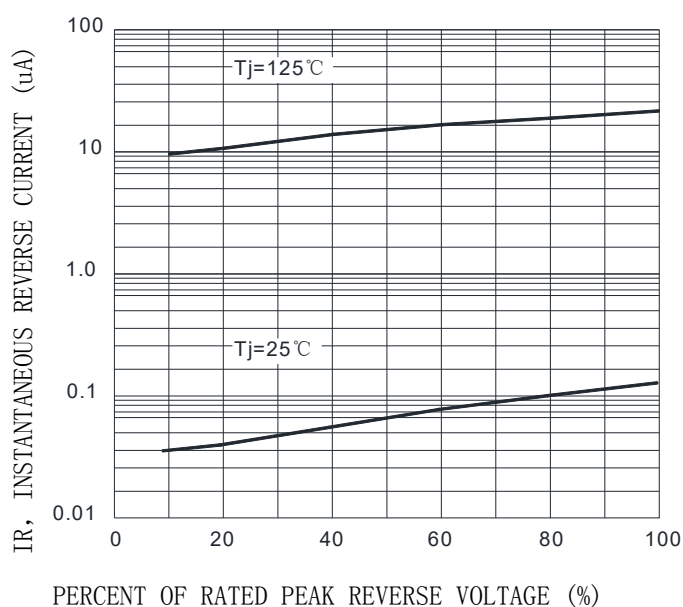
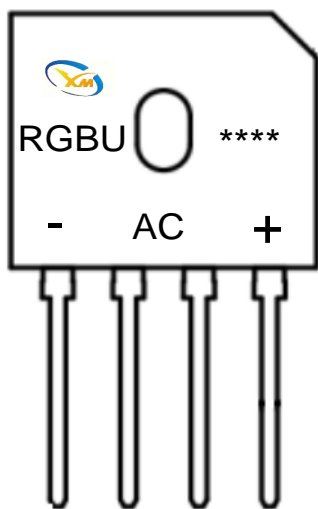


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)





MARKING INFORMATION



= Logo

RGBU****= Date Code Marking

Print according to customer request

PACKING REQUIRMENTS

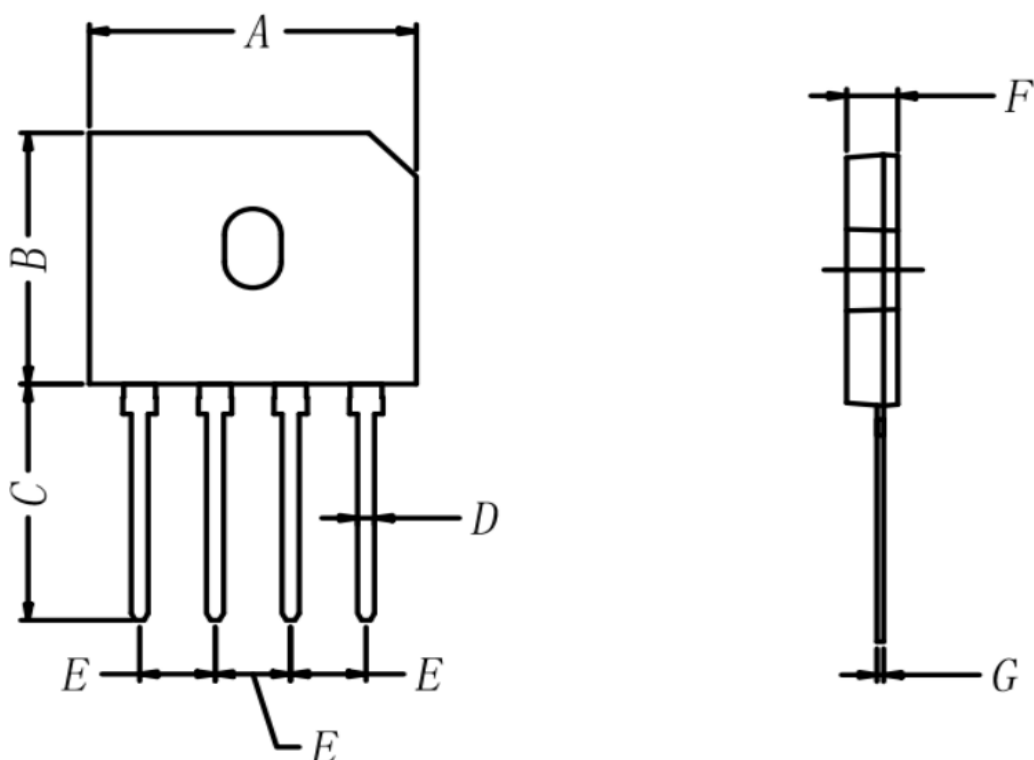
- Ps The carton packaging

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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