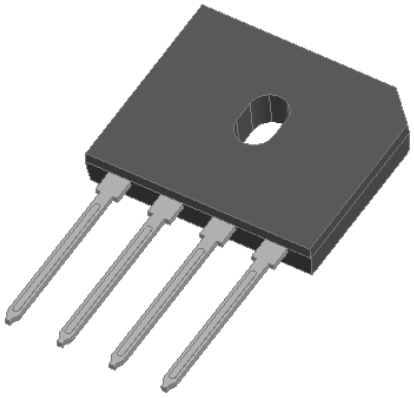
四川旭茂微科技有限公司
Sichuan Xu Mao Micro Technology Co.,Ltd

RGBU610

Fast Recovery Bridge Rectifiers
Reverse Voltage-1000v
Forward current-6A

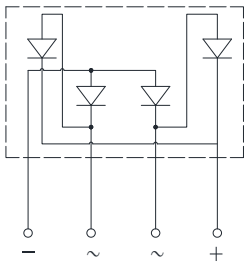


Features

Glass passivated chip
High surge current capability
Ldeal 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 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 ℃	$IO_{(AV)}$	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℃		240.0	
Current squared time @1ms≤t8.3≤ms Tj=25℃， Rating of per diode	I^2t	59.8	A^2S
Maximum Forward Voltage at 6.0A DC	V_{FM}	1.3	V
Maximum Reverse Current TA = 25℃	IR	5	uA
at Rated DC Blocking Voltage TA = 100℃		100	
Maximum reverse recovery time	trr	500	ns
Typical Junction Capacitance	CJ	40	pF
Typical Thermal Resistance	R_{QJa}	75.0	℃/W
Operating Junction Temperature Range	T_J	—55to+150	℃
Storage Temperature Range	T_{STG}	—55to+150	℃

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

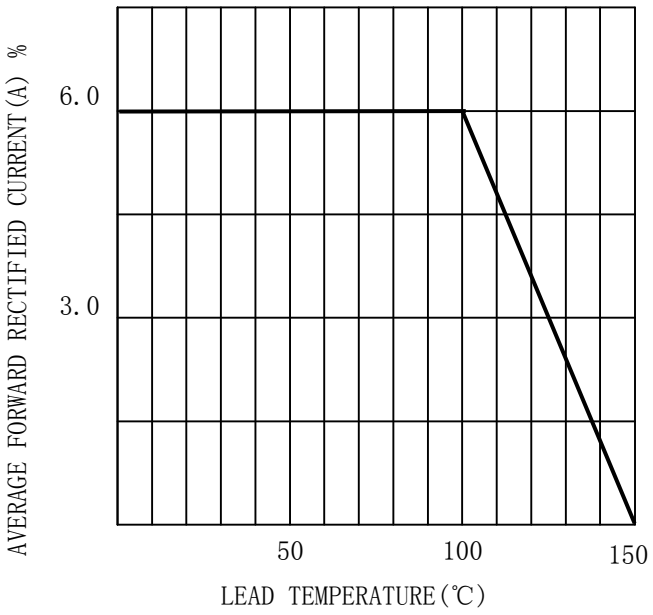


FIG.2TYPICAL FORWARD CHARACTERISTICS

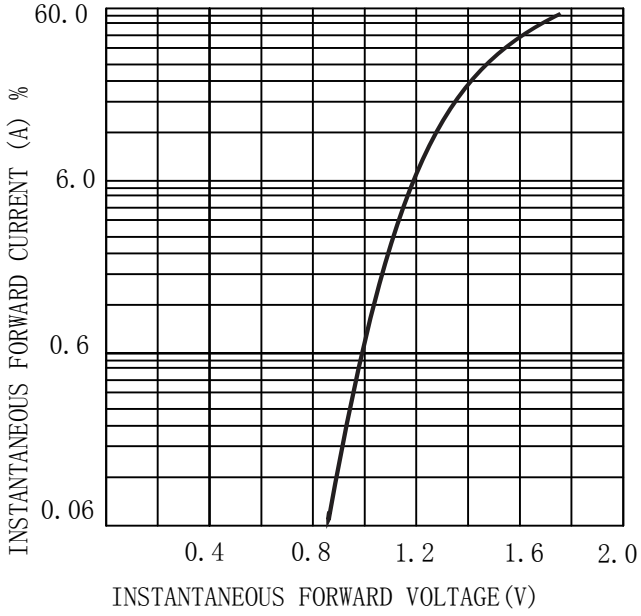


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

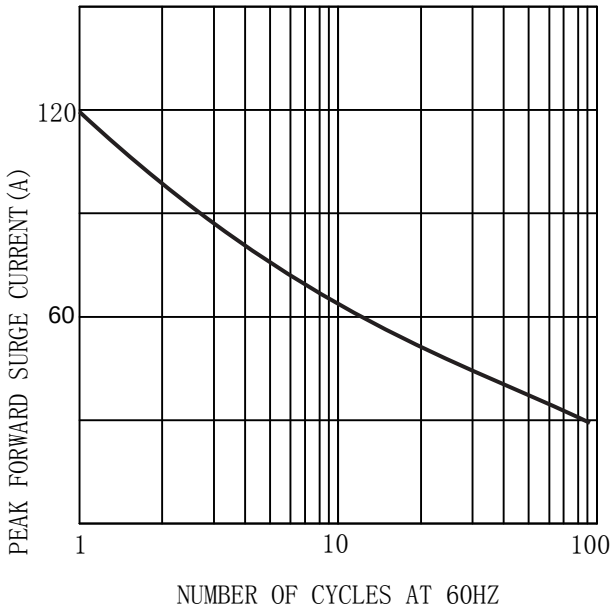
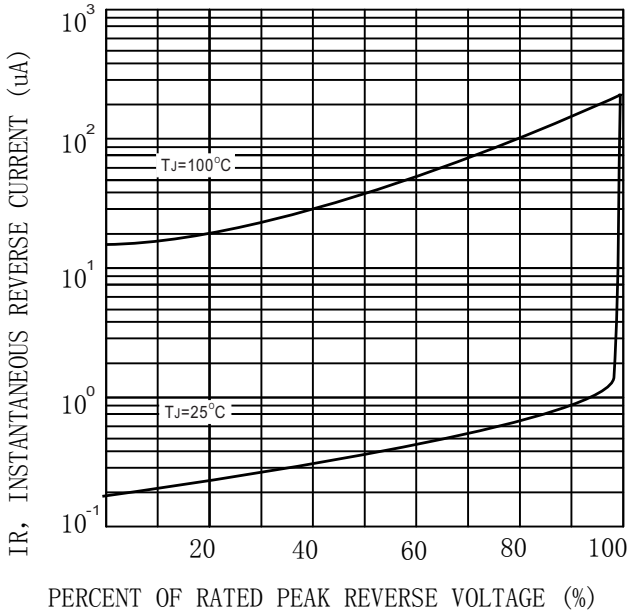
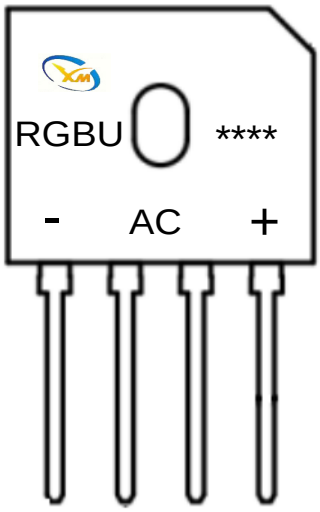


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



MARKING INFORMATION



= Logo

RGBU****= Date Code Marking

Print according to customer request

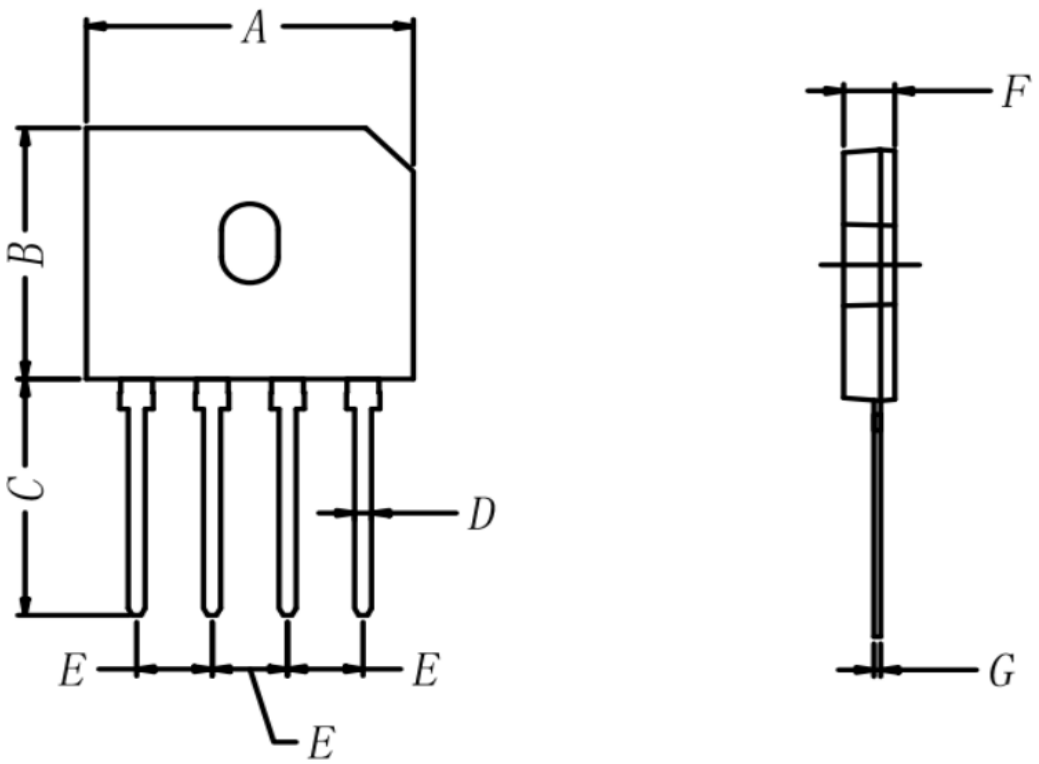
PACKING REQUIRMENTS

- Ps The carton packaging .

DEVICE TYPE	Q'TY/REEL (pcs)	BOX/CARTOON	Q'TY/REEL (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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