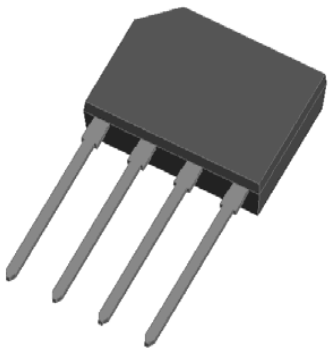
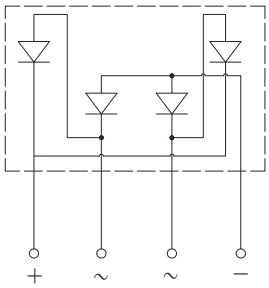
四川旭茂微科技有限公司
Sichuan Xu Mao Micro Technology Co.,Ltd

RGBP310

Fast Recovery Bridge Rectifiers
Reverse Voltage-1000v
Forward current-3A





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: 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℃ Unless otherwise specified)

Type Number	SYMBOL	RGBP 310	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	$IO_{(AV)}$	3.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	50.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		100.0	
Current squared time @1ms≤t8.3≤ms Tj=25℃， Rating of per diode	I^2t	10.4	A^2S
Maximum Forward Voltage at 2.0A DC	V_{FM}	1.3	V
Maximum Reverse Current TA = 25℃	IR	5	uA
at Rated DC Blocking Voltage TA = 125℃		100	
Maximum reverse recovery time (IF=0.5A,IR=1.0A, Irr=0.25A)	trr	500	ns
Typical Thermal Resistance	R_{QJa}	47.0	℃/W
Operating Junction Temperature Range	T_J	—55to+150	℃
Storage Temperature Range	T_{STG}	—55to+150	℃

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

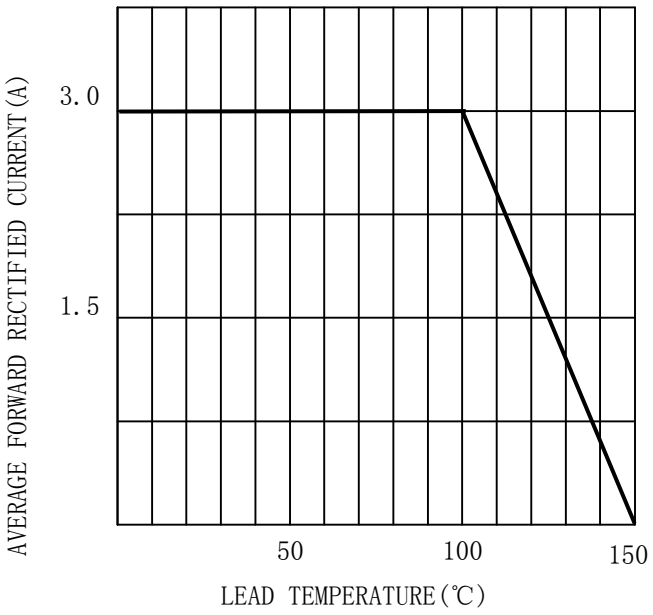


FIG.2TYPICAL FORWARD CHARACTERISTICS

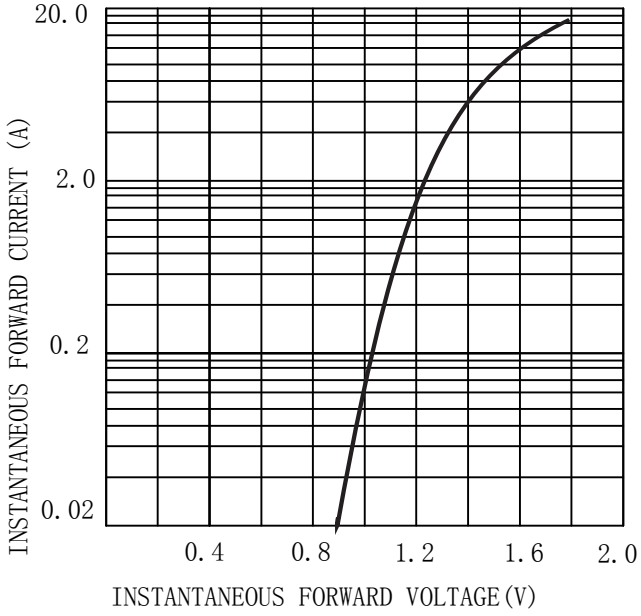


FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

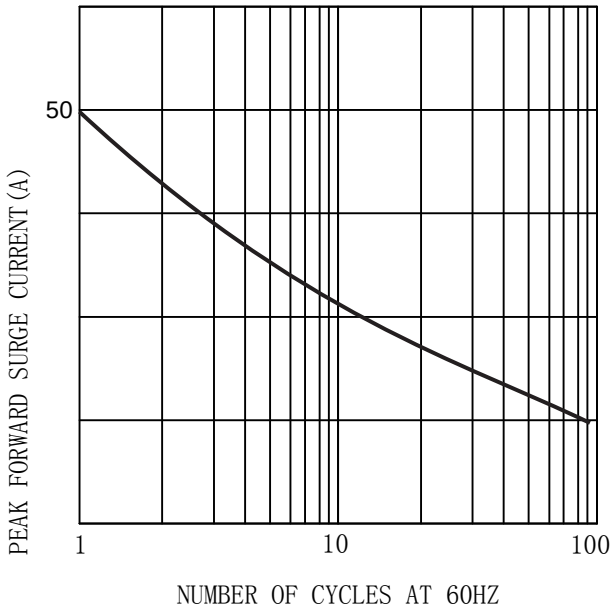
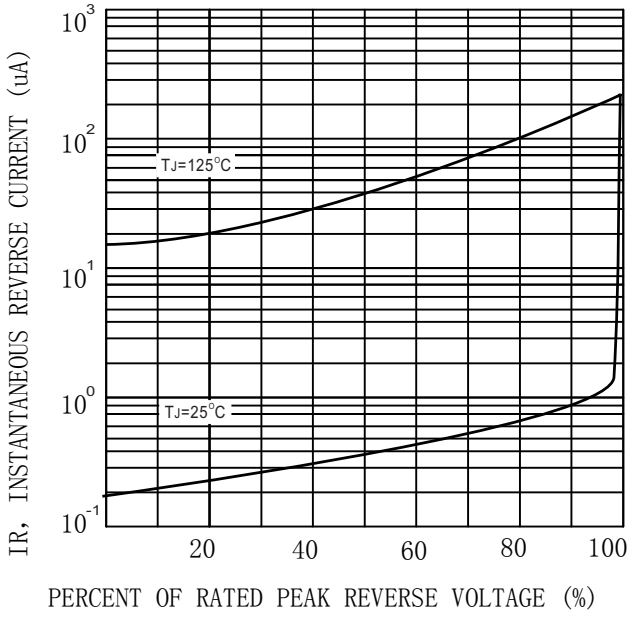
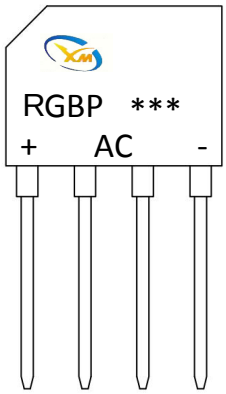


FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



MARKING INFORMATION



= Logo

RGBP *** = Marking Code

PACKING REQUIRMENTS
. PS The carton packaging

Print according to customer request

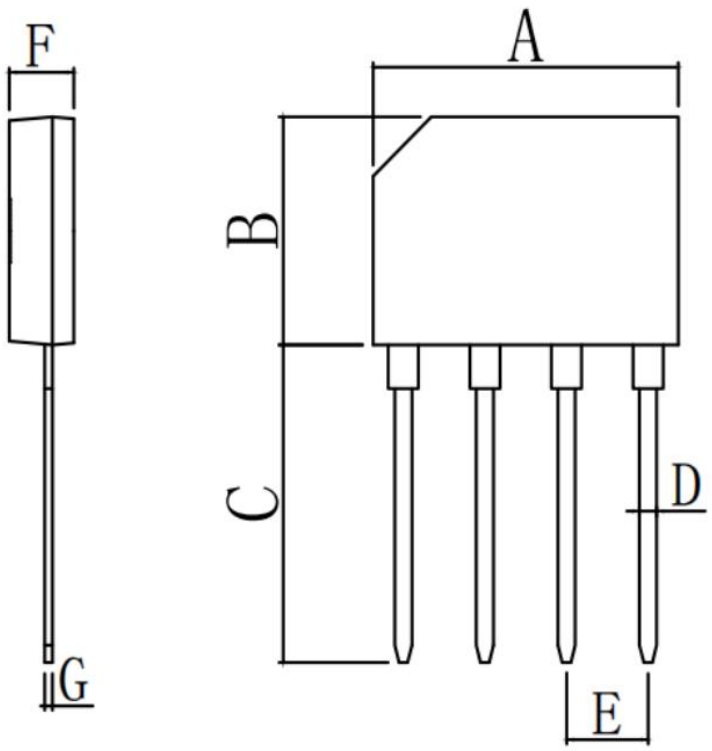
PACKING REQUIRMENTS

- Ps The carton packaging .

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