

■ Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Fast reverse recovery time

■ Applications

- General purpose use in AC/DC bridge full wave rectification

■ Mechanical Data

- Case: GBP
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



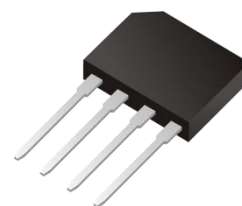
Reverse Voltage

50-1000 V

Forward Current

3.0 A max

Appearance Image



■ Marking

- RGBP3(005~10)

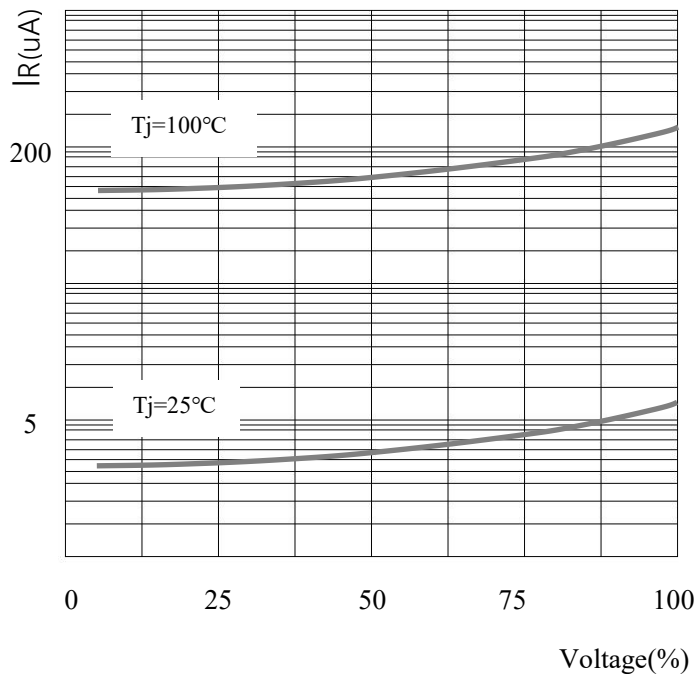
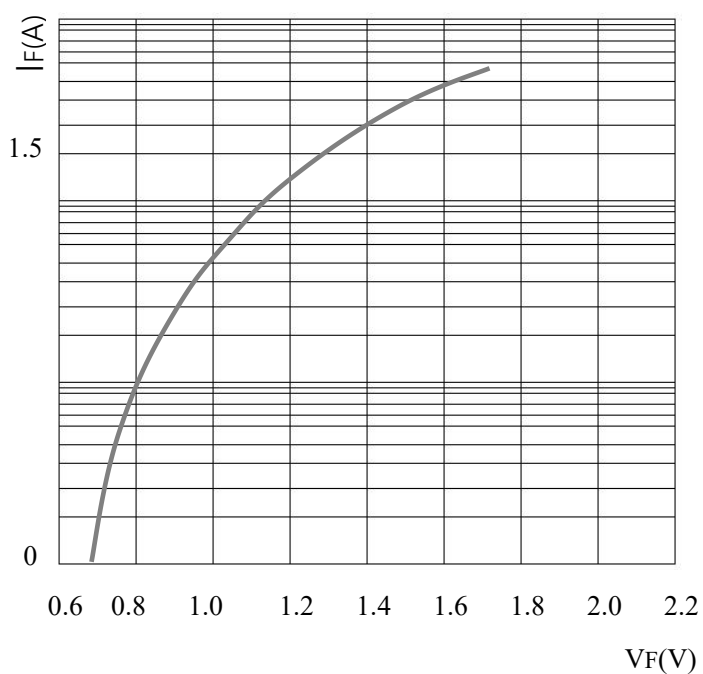
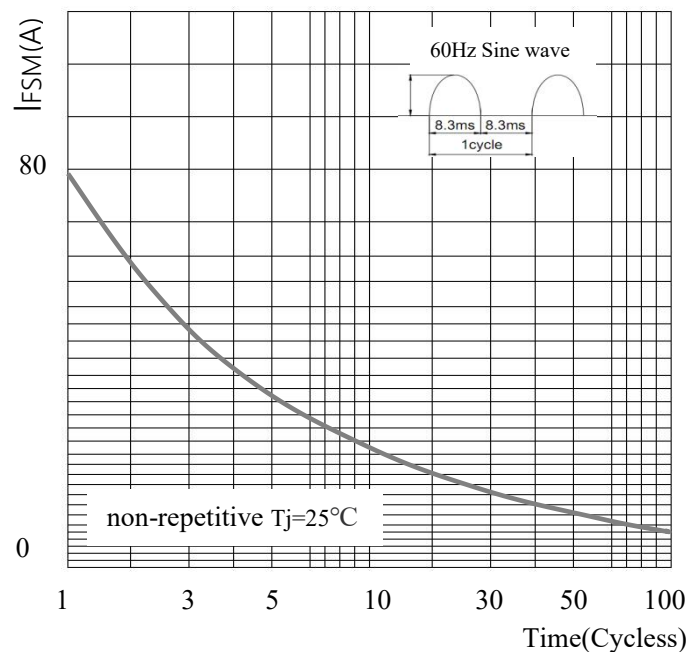
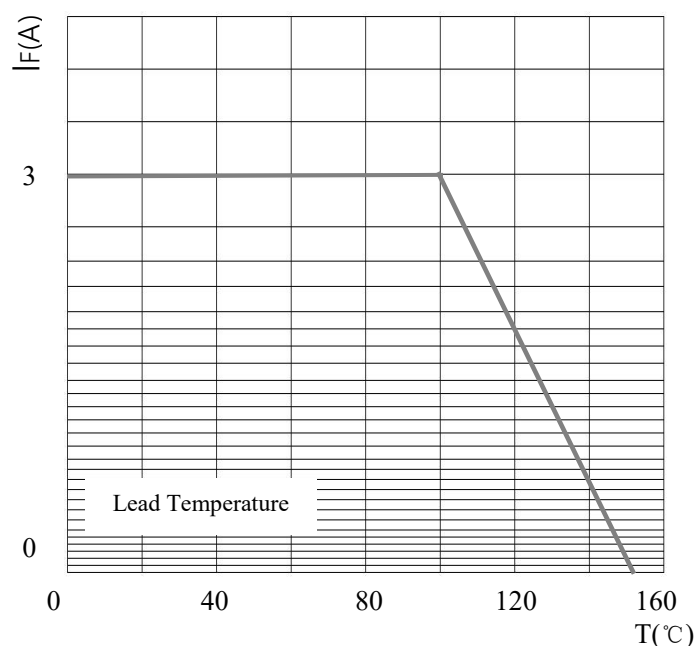
■ Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	RGBP3005	RGBP301	RGBP302	RGBP304	RGBP306	RGBP308	RGBP310
Repetitive peak reverse voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	I _{F(AV)}	A	3.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I _{FSM}	A	80						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	160						
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	I²t	A²S	26.56						
Maximum reverse recovery time	T _{rr}	ns	150				250	500	
Storage temperature	T _{stg}	°C	-55~+150						
Junction temperature	T _j	°C	-55~+150						

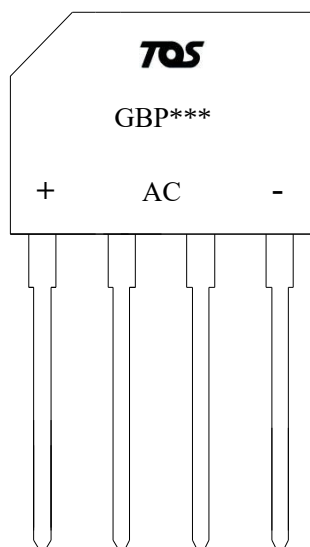
■ Electrical Characteristics @ Ta = 25°C unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	RGBP3005	RGBP301	RGBP302	RGBP304	RGBP306	RGBP308	RGBP310
Maximum instantaneous forward voltage	$I_F=1.5A$	V_F	V	1.3						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}$, Tj=25°C	I_R	μA	5						
	$V_R=V_{DC}$, Tj=100°C	I_R		200						

■ Characteristic Curve (Typical)



■ Marking and packet information

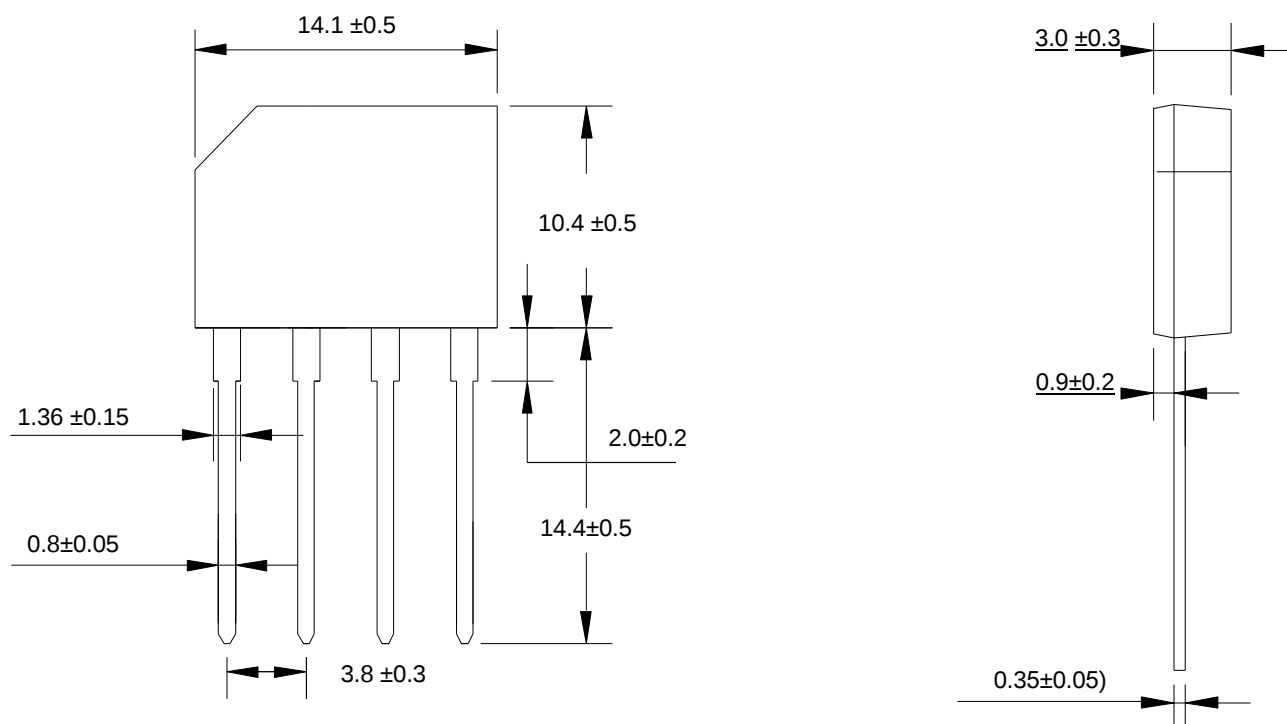


GBP*** : Marking Model

TOS : Brand Logo

Packaging information	
每盒	500PCS
每箱	5000PCS
脚长定制	支持

■ GBP Package outline dimensions



Dimensions in millimeters

■ Notice

XILONG reserves the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein.
xilong does not assume any liability arising out of the application or use of any product described herein.