GBP6005 THRU GBP610

GBP Plastic-Encapsulate Bridge Rectifier

Reverse Voltage
50-1000 V

Forward Current
6.0 A max

Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

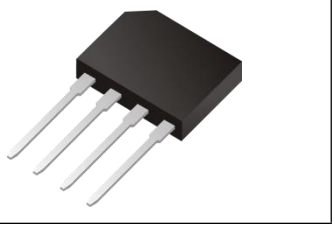
Applications

- 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

Appearance Image



Marking

- GBP6xx(005~10)

Maximum Ratings @ Ta = 25℃ unless otherwise noted

PARAMETER	SYMBOL	UNIT	GBP6005	GBP601	GBP602	GBP604	GBP606	GBP608	GBP610
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	6.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	150						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	300						
Current squared time @1ms≤t<8.3ms Tj=25℃，Rating of per diode	I^2t	A^2S	93.38						
Storage temperature	T_{stg}	℃	-55～+150						
Junction temperature	T_j	℃	-55～+150						

Electrical Characteristics @ Ta = 25℃ unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	GBP6005	GBP601	GBP602	GBP604	GBP606	GBP608	GBP610
Maximum instantaneous forward voltage	I_F=3.0A	V_F	V	1.0						
Maximum DC reverse currentat rated DC blocking voltage	V_R=V_{DC}, Tj=25℃	I_R	μA	5						
	V_R=V_{DC}, Tj=100℃	I_R		500						

Characteristic Curve (Typical)

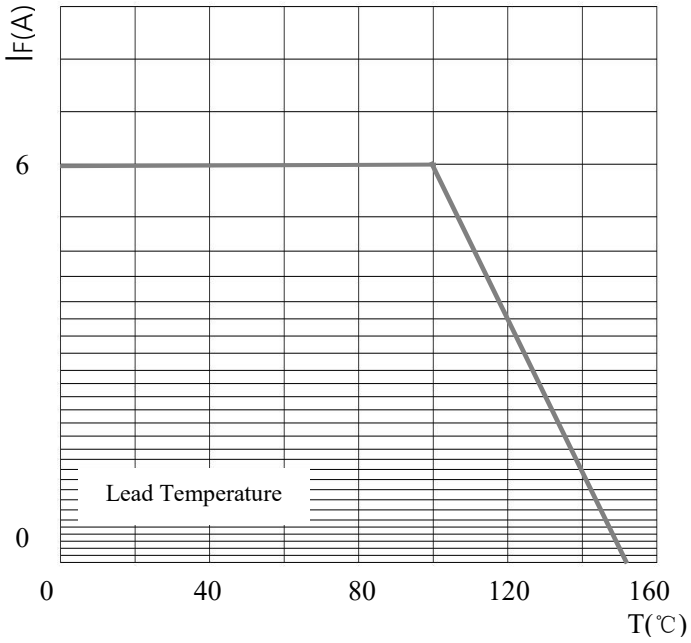


FIG1.Derating Curve For Output Rectified Current

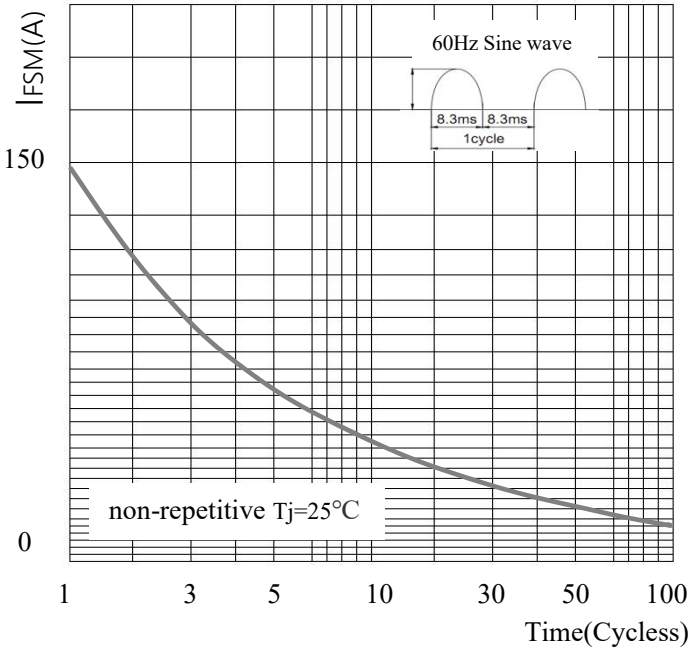


FIG2. Surge Forward Current Capability

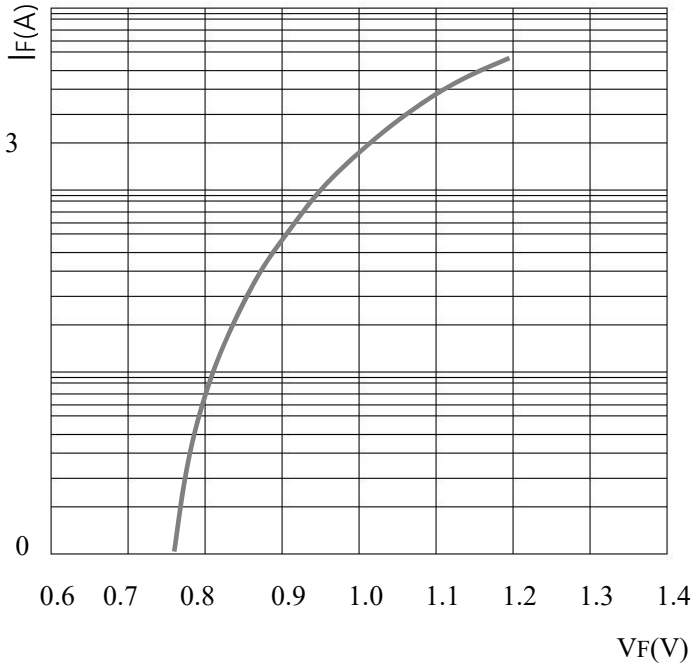


FIG3.Typical Forward Characteristics

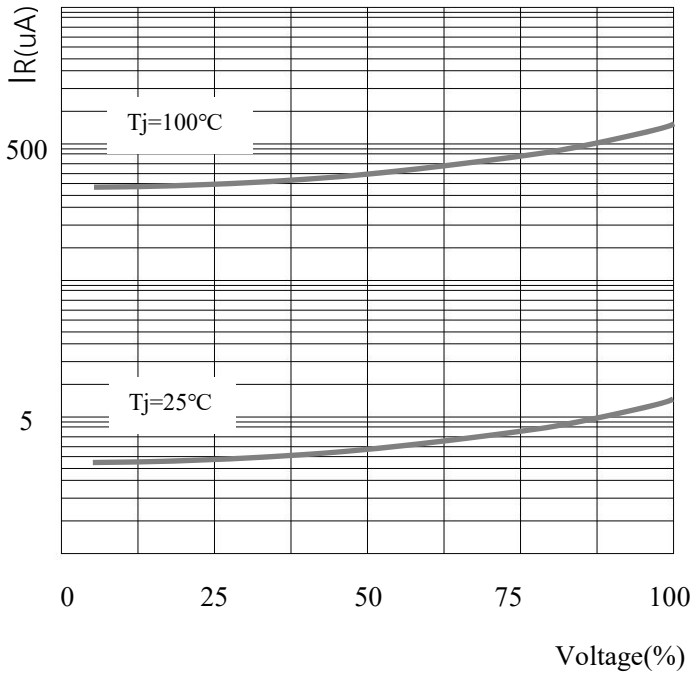
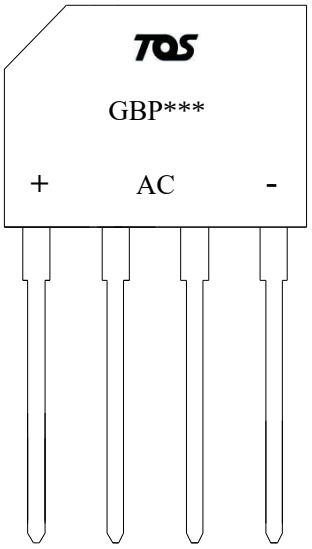


FIG4.Typical Reverse Characteristics

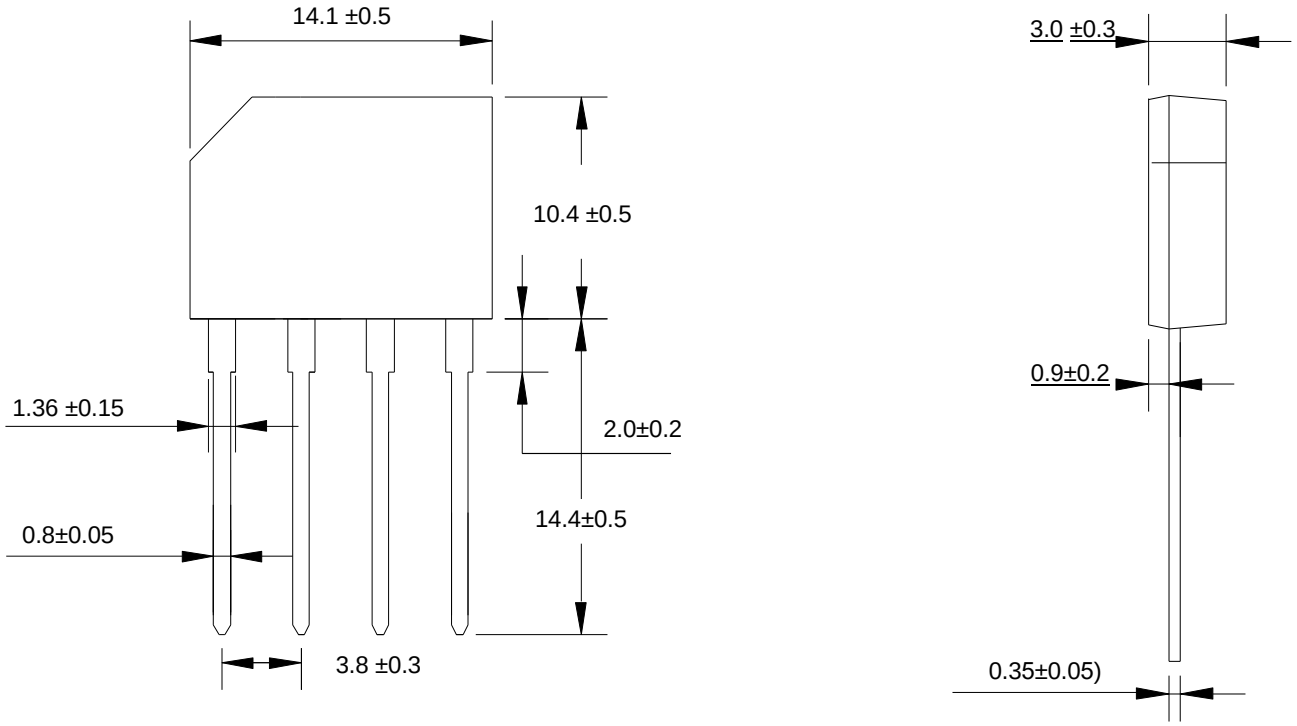
Marking and packet information



GBP***：Marking Model　　：Brand Logo

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

GBP Package outline dimensions



Dimensions in milimeters

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