

GBP6005 - GBP610

GLASSPASSIVATEDBRIDGERECTIFIERS

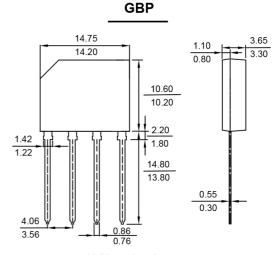
Reverse Voltage: 50 to 1000 Volts Forward Current: 6.0 Ampere

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



All Dimensions in mm

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	GBP 6005	GBP 601	GBP 602	GBP 604	GBP 606	GBP 608	GBP 610	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T _A = 50°C	lo	6.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					А		
Forward Voltage (per element) @I _F = 6.0A	VFM	1.1						V	
	IRM	10 500							μА
Typical Thermal Resistance (Note 3)	RθJA	40						K/W	
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150						°C	

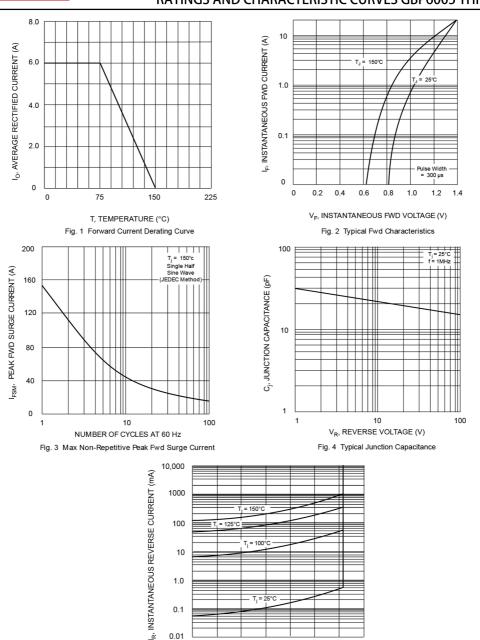
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance junction to ambient mounted on PC board with 12mm² copper pad.

CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO.,LTD.



RATINGS AND CHARACTERISTIC CURVES GBP6005 THRU GBP610



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PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 5 Typical Reverse Characteristics

120 140

0 20 40 60 80 100