

## GBPC15005-G Thru. GBPC5010-G Series

Reverse Voltage: 50 to 1000V

Forward Current: 15/25/35/50A

RoHS Device

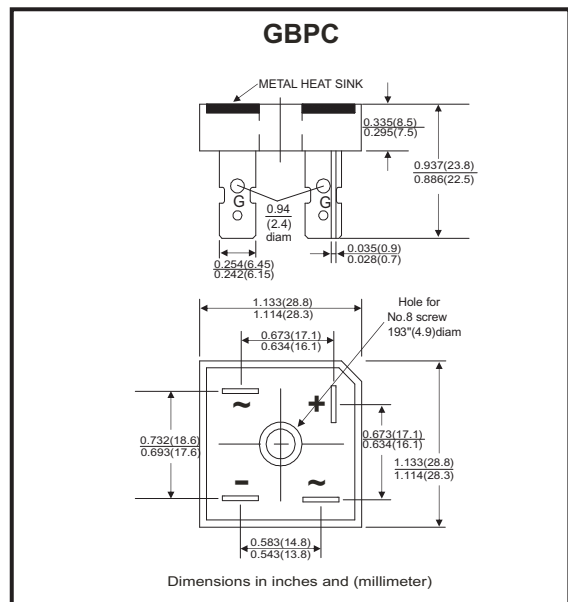


### Features

- Surge overload -300~450 Amperes peak.
- Low forward voltage drop.
- Electrically isolated base -2000 Volts.
- Solderable 0.25" Fast ON terminals.
- UL recognized file # E349301

### Mechanical Data

- Polarity: As marked on Body.
- Mounting position: Any.
- Weight: 16.57 grams (approx.).



### Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave ,60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

| Parameter                              | Symbol    | GBPC-G | GBPC-G | GBPC-G | GBPC-G | GBPC-G | GBPC-G | GBPC-G | Unit |
|--|-----------|--------|--------|--------|--------|--------|--------|--------|------|
|  |           | 15005  | 1501   | 1502   | 1504   | 1506   | 1508   | 1510   |      |
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 50     | 100    | 200    | 400    | 600    | 800    | 1000   | V    |
| Maximum RMS Bridge Input Voltage       | $V_{RRM}$ | 35     | 70     | 140    | 280    | 420    | 560    | 700    | V    |
| Maximum DC Blocking Voltage            | $V_{DC}$  | 50     | 100    | 200    | 400    | 600    | 800    | 1000   | V    |

| Parameter  | Symbol     | GBPC15      | GBPC25 | GBPC35 | GBPC50 | Unit       |
|--|------------|-------------|--------|--------|--------|------------|
| Maximum Average Forward Rectified Output Current @ $T_c=55^\circ C$                  | $I_{(AV)}$ | 15          | 25     | 35     | 50     | A          |
| Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load | $I_{FSM}$  | 300         | 350    | 400    | 450    | A          |
| Maximum Forward Voltage Drop Per Element at 7.5/12.5/17.5/25.0A Peak                 | $V_F$      | 1.1         |        |        |        | V          |
| Maximum Reverse Current at rate DC Blocking Voltage Per Element @ $T_J=25^\circ C$   | $I_R$      | 10.0        |        |        |        | $\mu A$    |
| Operating Temperature Range  | $T_J$      | -55 to +150 |        |        |        | $^\circ C$ |
| Storage Temperature Range  | $T_{STG}$  | -55 to +150 |        |        |        | $^\circ C$ |

Company reserves the right to improve product design , functions and reliability without notice.

REV: C

## Rating and Characteristics Curves (GBPC1005-G Thru. GBPC5010-G Series)

Fig.1 - Derating Curve Output Rectified Current

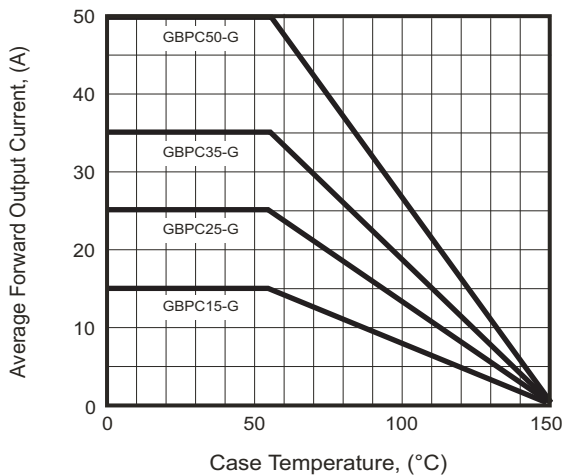


Fig.2 - Typical Forward Characteristics

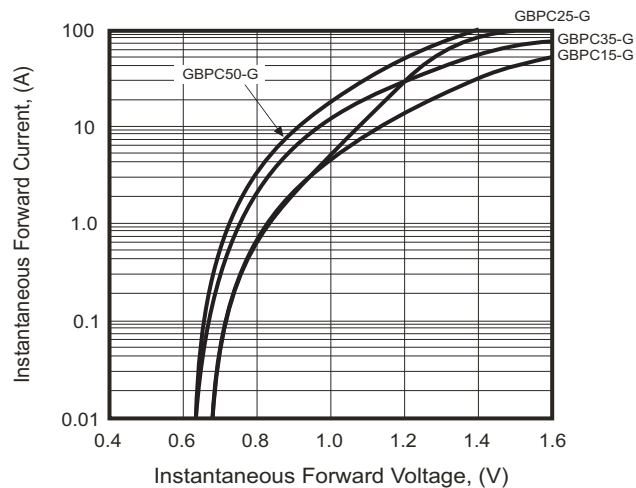


Fig.3 - Maximum Forward Surge Current

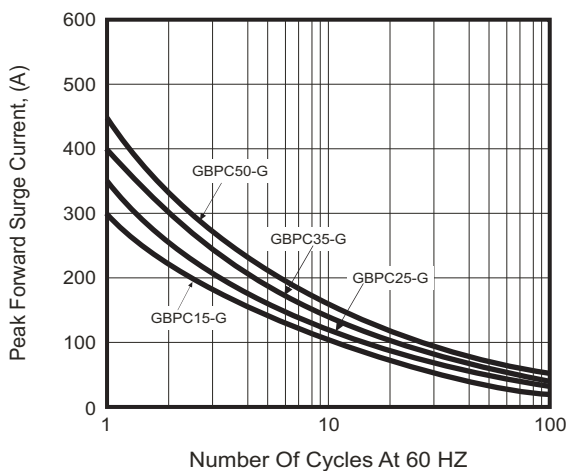
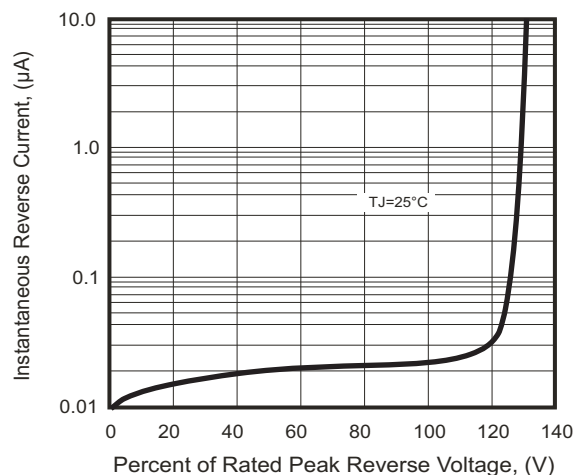
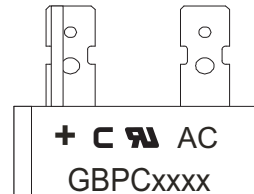


Fig.4 - Typical Reverse Characteristics



## Marking Code

| Part Number | Marking code |
|-------------|--------------|
| GBPC15005-G | GBPC15005    |
| GBPC25005-G | GBPC25005    |
| GBPC35005-G | GBPC35005    |
| GBPC50005-G | GBPC50005    |
| GBPC1501-G  | GBPC1501     |
| GBPC2501-G  | GBPC2501     |
| GBPC3501-G  | GBPC3501     |
| GBPC5001-G  | GBPC5001     |
| GBPC1502-G  | GBPC1502     |
| GBPC2502-G  | GBPC2502     |
| GBPC3502-G  | GBPC3502     |
| GBPC5002-G  | GBPC5002     |
| GBPC1504-G  | GBPC1504     |
| GBPC2504-G  | GBPC2504     |
| GBPC3504-G  | GBPC3504     |
| GBPC5004-G  | GBPC5004     |
| GBPC1506-G  | GBPC1506     |
| GBPC2506-G  | GBPC2506     |
| GBPC3506-G  | GBPC3506     |
| GBPC5006-G  | GBPC5006     |
| GBPC1508-G  | GBPC1508     |
| GBPC2508-G  | GBPC2508     |
| GBPC3508-G  | GBPC3508     |
| GBPC5008-G  | GBPC5008     |
| GBPC1510-G  | GBPC1510     |
| GBPC2510-G  | GBPC2510     |
| GBPC3510-G  | GBPC3510     |
| GBPC5010-G  | GBPC5010     |



**XXXXX / XXXX = Product type marking code**  
**C = Comchip Logo**

## Standard Packaging

| Case Type | BULK PACK      |                   |
|-----------|----------------|-------------------|
|           | BOX<br>( pcs ) | CARTON<br>( pcs ) |
| GBPC      | 50             | 500               |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Bridge Rectifiers](#) category:*

*Click to view products by [Comchip](#) manufacturer:*

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [90MT160KPBF](#) [GBJ1504-BP](#) [GBU15J-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU4D-BP](#) [GBU6B-E3/45](#)  
[GSIB680-E3/45](#) [DB101-BP](#) [DF01](#) [DF10SA-E345](#) [KBPC50-10S](#) [RS405GL-BP](#) [G5SBA60-E3/51](#) [GBU10J-BP](#) [GBU6M](#) [GBU8D-BP](#)  
[GBU8J-BP](#) [GSIB1520-E3/45](#) [36MB140A](#) [TB102M](#) [MB1510](#) [MB258](#) [MB6M-G](#) [MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [BR1005-BP](#)  
[BR101-BP](#) [BR84DTP204](#) [BU2008-E3/51](#) [36MB100A](#) [KBPC10/15/2501WP](#) [KBPC25-02](#) [VS-2KBB60](#) [DF06SA-E345](#) [DF1510S](#) [VS-](#)  
[40MT160PAPBF](#) [W02M](#) [GBL02-E3/45](#) [GBU4G-BP](#) [GBJ2506-BP](#) [GBU6B-E3/51](#) [GSIB15A80-E3/45](#)