



GBP Plastic-Encapsulate Bridge Rectifier

GBP4005 THRU GBP410 General Purpose Bridge Rectifier

Features

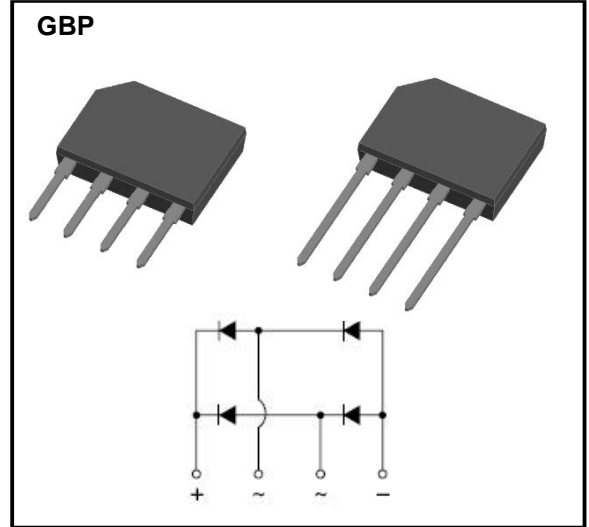
- I_o 4A
- VRRM 50V-1000V
- High surge current capability
- Glass passivated chip

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- GBP4XX
- XX : From 005 To 10



Limiting Values (Absolute Maximum Rating)

| Item | Symbol | Unit | Conditions | GBP4 | | | | | | |
|--------------------------------------|------------------|------------------|---|-----------|-----|-----|-----|-----|-----|------|
| | | | | 005 | 01 | 02 | 04 | 06 | 08 | 10 |
| Repetitive Peak Reverse Voltage | V _{RRM} | V | | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Average Rectified Output Current | I _o | A | 60Hz sine wave, R-load T _c =50°C | 4.0 | | | | | | |
| Surge(Non-repetitive)Forward Current | I _{FSM} | A | 60Hz sine wave, 1 cycle, T _j =25°C | 125 | | | | | | |
| Current Squared Time | I ² t | A ² S | 1ms ≤ t < 8.3ms T _j =25°C, Rating of per diode | 64.8 | | | | | | |
| Storage Temperature | T _{stg} | °C | | -55 ~+150 | | | | | | |
| Junction Temperature | T _j | °C | | -55 ~+150 | | | | | | |

Electrical Characteristics (T_a=25°C Unless otherwise specified)

| Item | Symbol | Unit | Test Condition | Max |
|----------------------|--------------------|------|--|-----|
| Peak Forward Voltage | V _{FM} | V | I _{FM} =4.0A, Pulse measurement, Rating of per diode | 1.1 |
| Peak Reverse Current | I _{RRM} | μ A | V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode | 10 |
| Thermal Resistance | R _{θ J-A} | °C/W | Between junction and ambient | 47 |
| | R _{θ J-C} | | Between junction and lead | 10 |

Typical Characteristics

FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

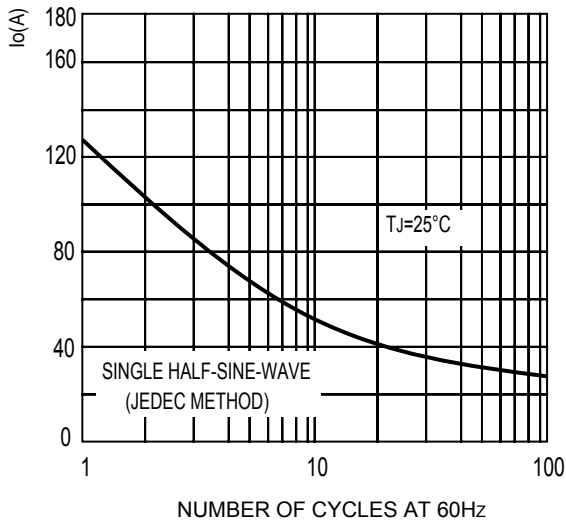


FIG.2-FORWARD DERATING CURRENT

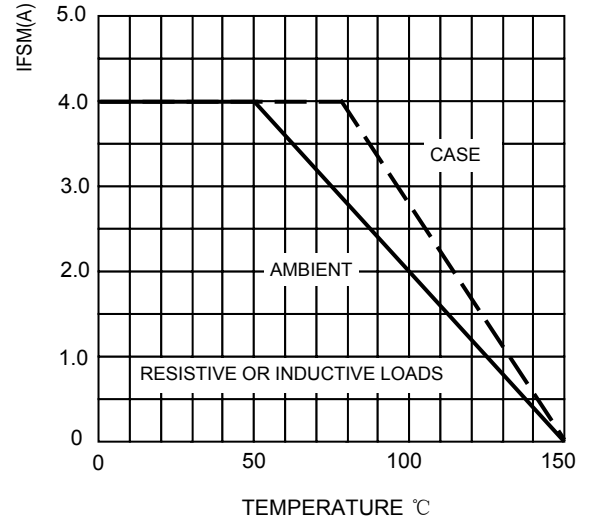


FIG.3-TYPICAL FORWARD CHARACTERISTICS

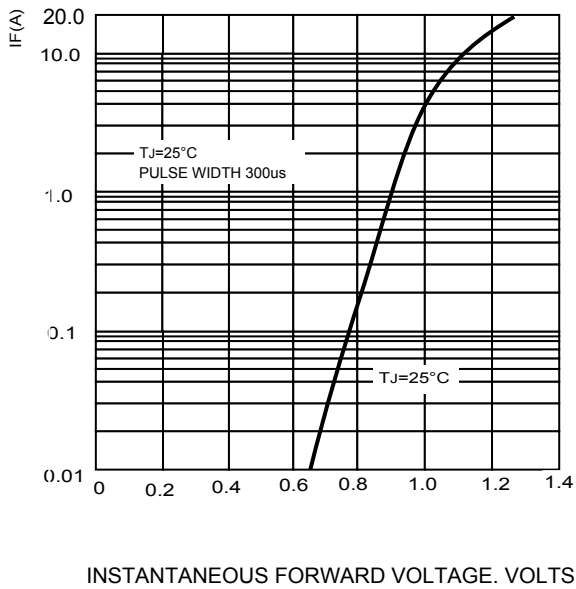
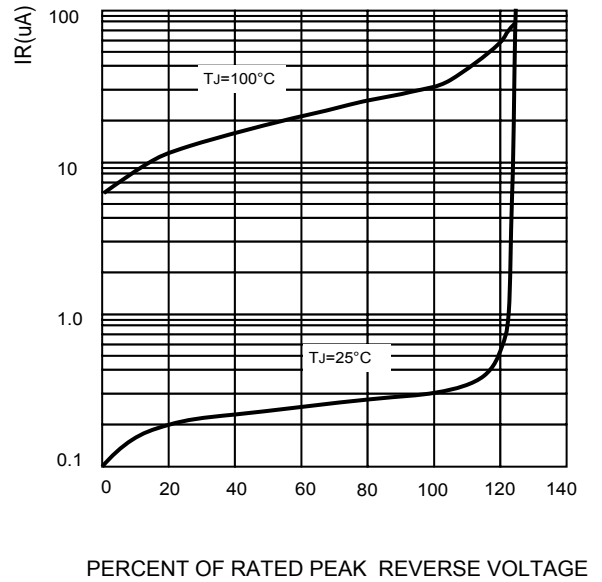
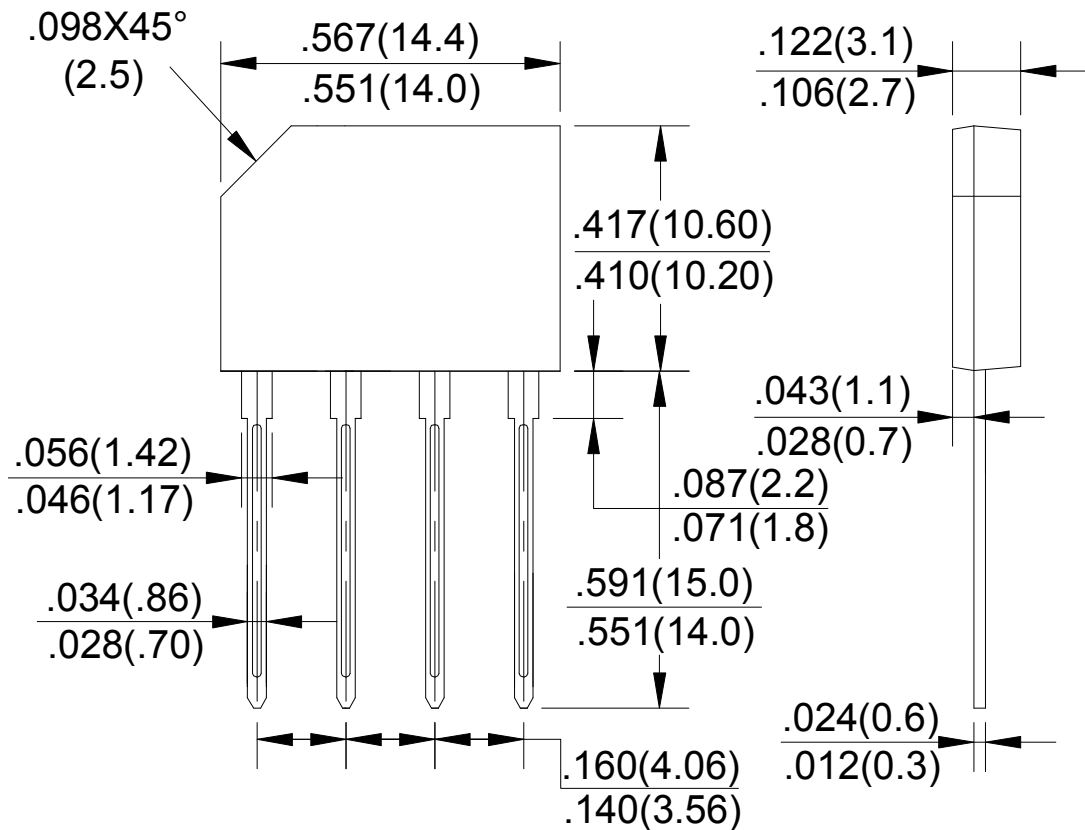
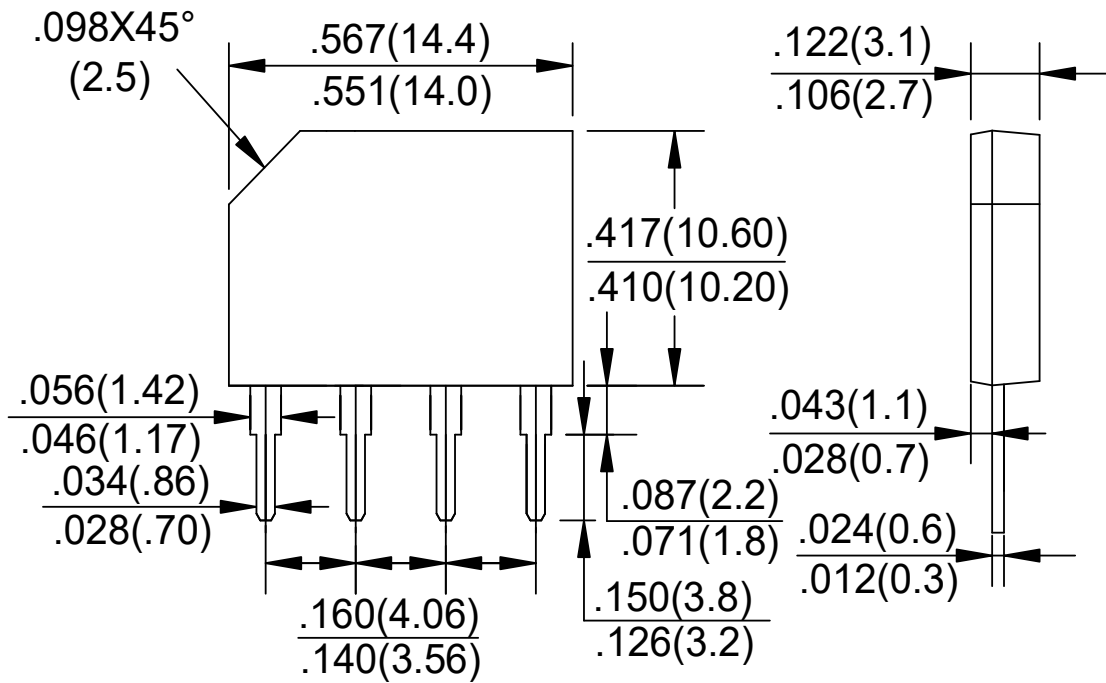


FIG.4-TYPICAL REVERSE CHARACTERISTICS



GBP Package Outline Dimensions



Dimensions in inches and (millimeters)

NOTICE

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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

Click to view products by [Changjing Electronics Technology](#) manufacturer:

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [GBJ1504-BP](#) [GBU10B-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU4D-BP](#) [GBU6B-E3/45](#) [DB101-BP](#) [DF01](#)
[DF10SA-E345](#) [BU1508-E3/45](#) [BU1510-E3/45](#) [KBPC50-10S](#) [RS405GL-BP](#) [GBJ1502-BP](#) [GBU6M](#) [GSIB1520-E3/45](#) [36MB140A](#) [TB102M](#)
[MB1510](#) [MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [MP5010W-BP](#) [MP501W-BP](#) [MP502-BP](#) [BR84DTP204](#) [BU1508-E3/51](#) [KBPC25-02](#)
[VS-110MT120KPBF](#) [VS-2KBB60](#) [VS-60MT120KPBF](#) [VS-60MT80KPBF](#) [DB105-BP](#) [DF1510S](#) [VS-40MT160PAPBF](#) [VISKBU8K-E4/51](#)
[36MT100](#) [GBU4G-BP](#) [GBU6B-E3/51](#) [DF15005S-E3/77](#) [GSIB15A80-E3/45](#) [DB104-BP](#) [D3SB60](#) [TB354](#)