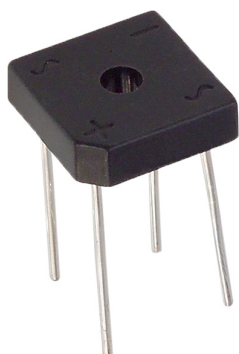


RoHS  
Compliant

### Applications

General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.

### Features

- Glass passivated chip
- Low forward voltage drop
- Lead free

### Maximum Ratings and Electrical Characteristics

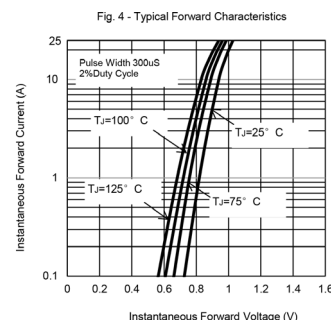
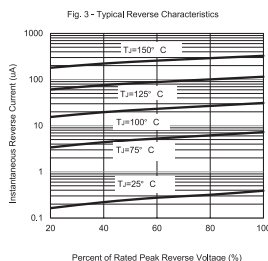
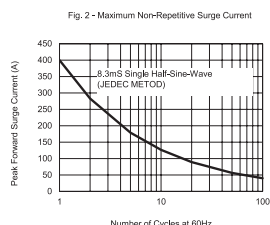
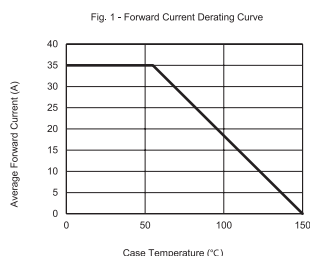
Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

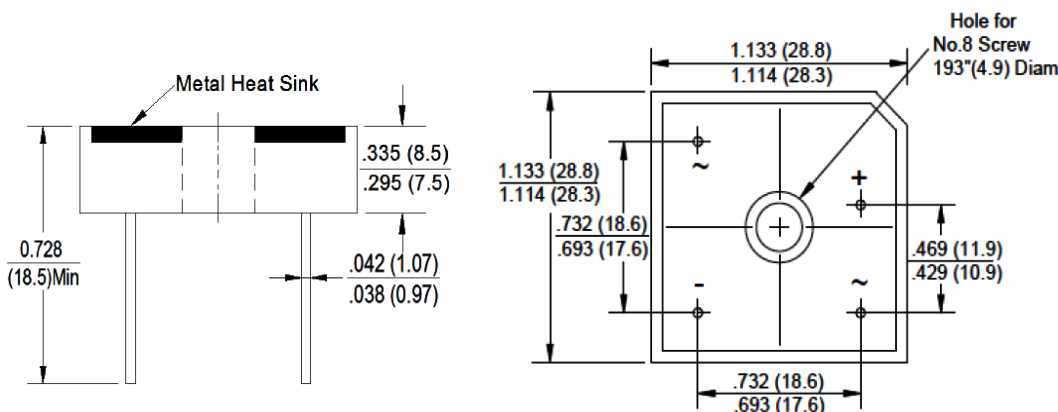
For capacitive load, derate current by 20%

| Characteristics                                                                                    | Symbol | GBP-<br>C3502W+ | GBP-<br>C3504W+ | GBP-<br>C3506W+ | GBP-<br>C3508W+ | GBP-<br>C3510W+ | Unit |
|----------------------------------------------------------------------------------------------------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|------|
| Maximum Repetitive Peak Reverse Voltage                                                            | VRRM   | 200             | 400             | 600             | 800             | 1000            | V    |
| Maximum RMS Voltage                                                                                | VRMS   | 140             | 280             | 420             | 560             | 700             |      |
| Maximum Average Forward Rectified Current @ Tc = 55°C                                              | IAV    | 35              |                 |                 |                 |                 | A    |
| Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) | IFSM   | 400             |                 |                 |                 |                 |      |
| I²t Rating for Fusing (t<8.3mS)                                                                    | I²t    | 664             |                 |                 |                 |                 |      |
| Peak Forward Voltage per Diode at 12.5A DC                                                         | VF     | 1.1             |                 |                 |                 |                 | V    |
| Maximum DC Reverse Current at Rated @TJ=25°C<br>DC Blocking Voltage per Diode @TJ=125°C            | IR     | 5               |                 |                 |                 |                 | µA   |
|                                                                                                    |        | 500             |                 |                 |                 |                 |      |
| Typical Thermal Resistance to case                                                                 | RθJC   | 2.2             |                 |                 |                 |                 | °C/W |
| Operating Junction Temperature Range                                                               | TJ     | -55 to +150     |                 |                 |                 |                 | °C   |
| Storage Temperature Range                                                                          | TSTG   |                 |                 |                 |                 |                 |      |

## Rating and Characteristic Curves



## Diagram



## Part Number Table

| Description                                   | Part Number |
|-----------------------------------------------|-------------|
| Glass Passivated Bridge Rectifier, 35A, 200V  | GBPC3502W+  |
| Glass Passivated Bridge Rectifier, 35A, 400V  | GBPC3504W+  |
| Glass Passivated Bridge Rectifier, 35A, 600V  | GBPC3506W+  |
| Glass Passivated Bridge Rectifier, 35A, 800V  | GBPC3508W+  |
| Glass Passivated Bridge Rectifier, 35A, 1000V | GBPC3510W+  |

Dimensions : Inches (Millimetres)

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