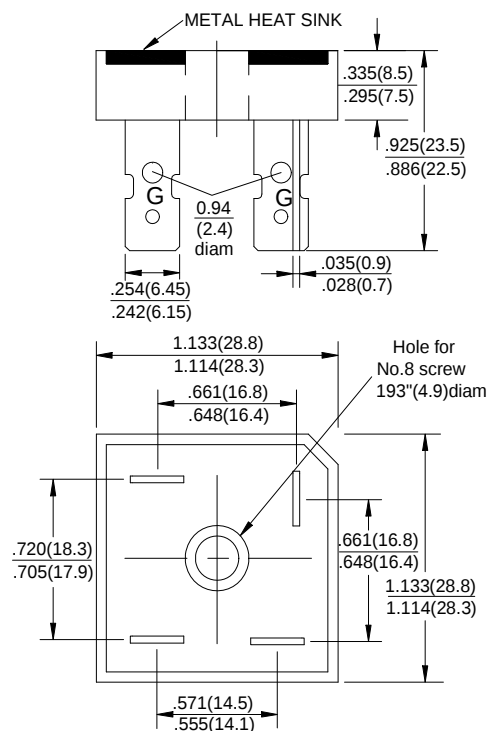




## GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 15/25/35/50Amperes

## FEATURES

- Surge overload -300~450 amperes peak
- Low forward voltage drop
- Mounting position :Any
- Electrically isolated base-2000 Vlots
- Solderable 0.25" FASTON terminals
- Materials used carries U/L recognition

## 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            | GBPC        |     | GBPC    |     | GBPC    |     | GBPC    |     | GBPC |  | UNIT |
|-------------------------------------------------------------------------------------------|-------------------|-------------|-----|---------|-----|---------|-----|---------|-----|------|--|------|
|                                                                                           |                   | 15005       |     | 1501    |     | 1502    |     | 1504    |     | 1506 |  |      |
|                                                                                           |                   | 25005       |     | 2501    |     | 2502    |     | 2504    |     | 2506 |  |      |
|                                                                                           |                   | 35005       |     | 3501    |     | 3502    |     | 3504    |     | 3506 |  |      |
|                                                                                           |                   | 50005       |     | 5001    |     | 5002    |     | 5004    |     | 5006 |  |      |
| Maximum Recurrent Peak Reverse Voltage                                                    | V <sub>RRM</sub>  | 50          | 100 | 200     | 400 | 600     | 800 | 1000    | V   |      |  |      |
| Maximum RMS Bridge Input Voltage                                                          | V <sub>RMS</sub>  | 35          | 70  | 140     | 280 | 420     | 560 | 700     | V   |      |  |      |
| Maximum Average Forward Rectified Output Current @ T <sub>c</sub> =55°C                   | I <sub>(AV)</sub> | GBPC 15     | 15  | GBPC 25 | 25  | GBPC 35 | 35  | GBPC 50 | 50  | A    |  |      |
| Peak Forward Surage Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load | I <sub>FSM</sub>  |             | 300 |         | 350 |         | 400 |         | 450 | A    |  |      |
| Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0 A Peak                 | V <sub>F</sub>    | 1.1         |     |         |     |         |     |         |     | V    |  |      |
| Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ T <sub>A</sub> =25°C   | I <sub>R</sub>    | 10          |     |         |     |         |     |         |     | uA   |  |      |
| Operating Temperature Range                                                               | T <sub>J</sub>    | -55 to +150 |     |         |     |         |     |         |     | °C   |  |      |
| Storage Temperature Range                                                                 | T <sub>STG</sub>  | -55 to +150 |     |         |     |         |     |         |     | °C   |  |      |

## GLASS PASSIVATED BRIDGE RECTIFIERS RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

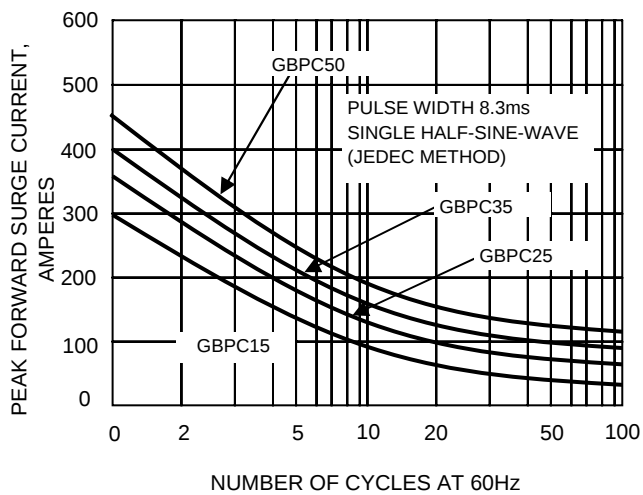


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

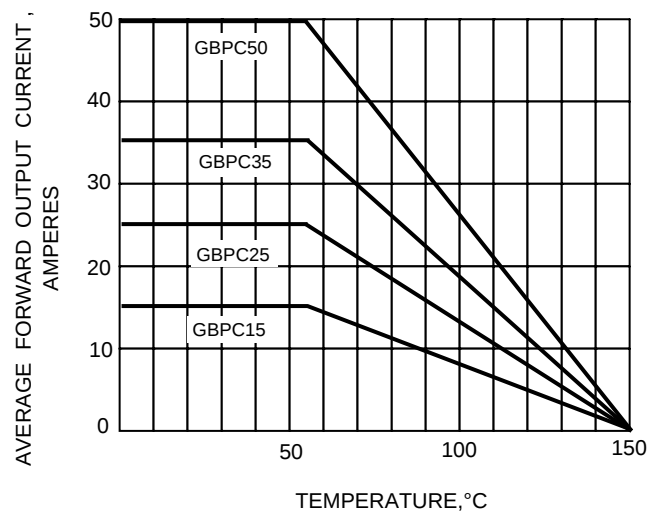


FIG.3-TYPICAL FORWARD CHARACTERISTICS

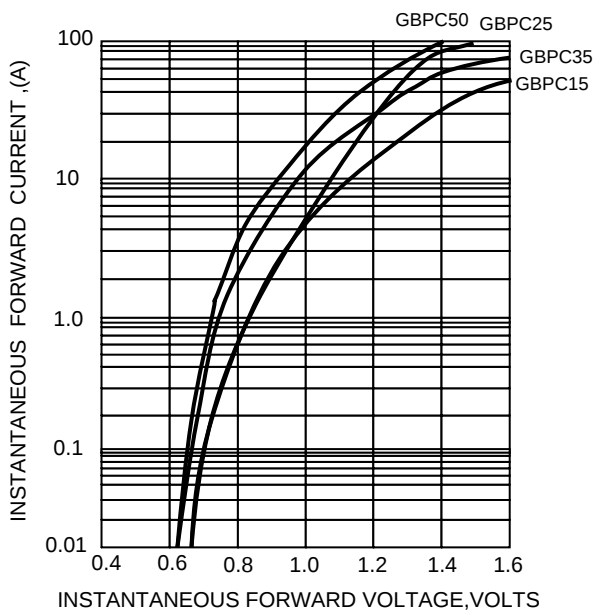


FIG.4-TYPICAL REVERSE CHARACTERISTICS

