



**GBPC35005 THRU GBPC3510**

**SINGLE PHASE GLASS**

**PASSIVATED BRIDGE RECTIFIER**

**VOLTAGE: 50 TO 1000V CURRENT: 35A**

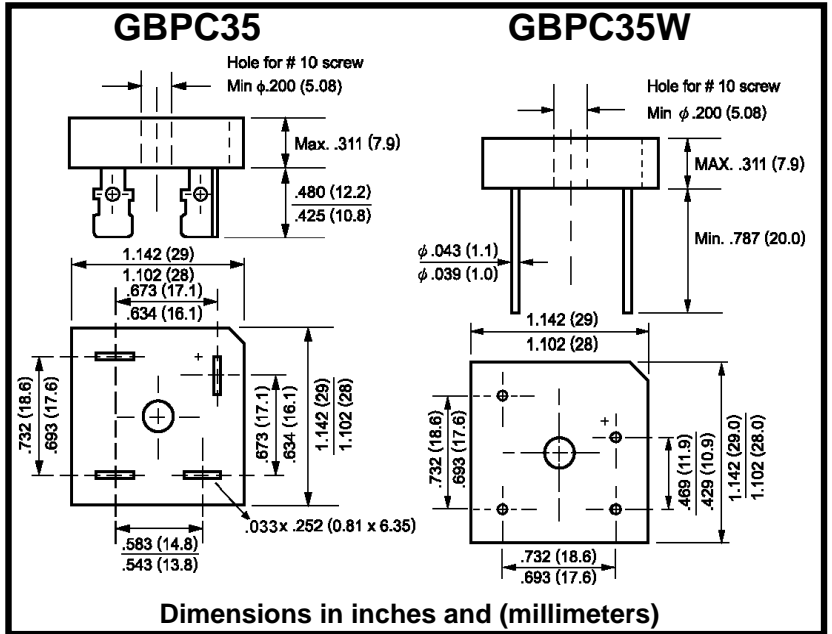
**TECHNICAL SPECIFICATION**

**FEATURES**

- Glass passivated junction chip
- Surge overload rating: 400 A peak
- Low profile design
- 1/4" universal fasten terminal and  $\phi.04$ " lead - wire available
- High temperature soldering guaranteed: 250°C/10sec/0.375"(9.5mm) lead length at 5 lbs tension

**MECHANICAL DATA**

- Polarity: Polarity symbol marked on body
- Mounting position: Hole thru for #10 screw



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

| RATINGS   | SYMBOL         | GBPC 35005  | GBPC 3501 | GBPC 3502 | GBPC 3504 | GBPC 3506 | GBPC 3508 | GBPC 3510 | UNITS      |
|---|----------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$      | 50          | 100       | 200       | 400       | 600       | 800       | 1000      | V          |
| Maximum RMS Voltage   | $V_{RMS}$      | 35          | 70        | 140       | 280       | 420       | 560       | 700       | V          |
| Maximum DC Blocking Voltage   | $V_{DC}$       | 50          | 100       | 200       | 400       | 600       | 800       | 1000      | V          |
| Maximum Average Forward Rectified Current ( $T_c=55^\circ C$ )                      | $I_{F(AV)}$    | 35          |           |           |           |           |           |           | A          |
| Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load) | $I_{FSM}$      | 400         |           |           |           |           |           |           | A          |
| Maximum Instantaneous Forward Voltage (at forward current 17.5A)                    | $V_F$          | 1.1         |           |           |           |           |           |           | V          |
| Maximum DC Reverse Current ( $T_a=25^\circ C$ )                                     | $I_R$          | 10.0        |           |           |           |           |           |           | $\mu A$    |
| (at rated DC blocking voltage) ( $T_a=100^\circ C$ )                                |                | 500         |           |           |           |           |           |           | $\mu A$    |
| Storage and Operating Junction Temperature  | $T_{STG}, T_J$ | -55 to +150 |           |           |           |           |           |           | $^\circ C$ |

Note:

Suffix "W" for wire type