



**GBPC35005 THRU GBPC3510**

**SINGLE PHASE GLASS**

**PASSIVATED BRIDGE RECTIFIER**

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

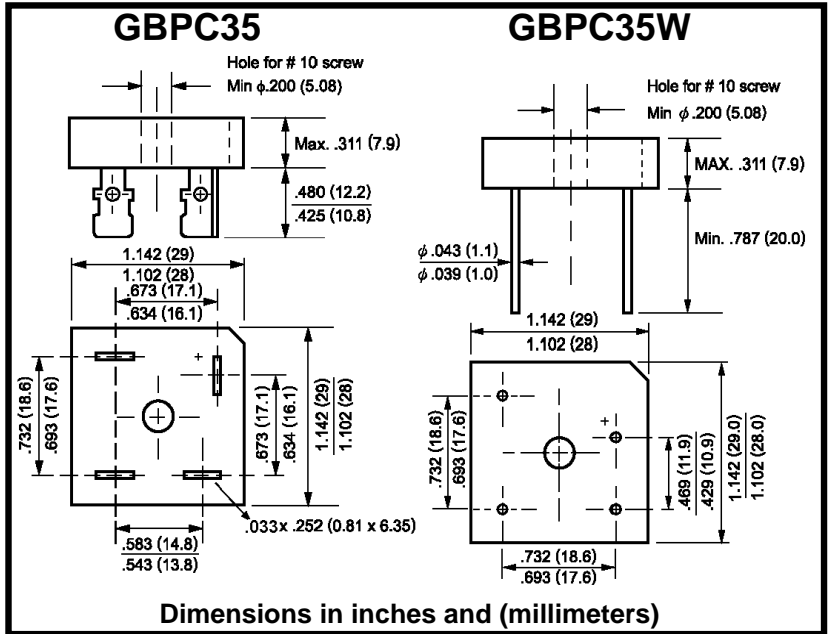
**TECHNICAL SPECIFICATION**

**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