

GBPC35005W THRU GBPC3510W

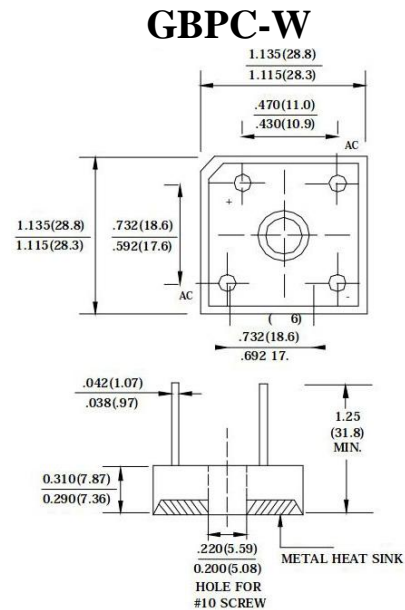
SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS
 REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 35 Ampere

FEATURES

- ◆ Rating to 1000V PRV.
- ◆ High efficiency.
- ◆ Glass passivated chip junction.
- ◆ Electrically isolated metal case for maximum heat dissipation.
- ◆ The plastic material has UL flammability classification 94V-0.
- ◆ Electrically isolated base-2500 Volts

Mechanical Data

- ◆ Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation.
- ◆ Polarity: As marked on Body.
- ◆ Mounting : Hole for # 10 screw.
- ◆ Weight : 0.47 ounces , 13.4 grams (wire) .



Dimensions in inches and (millimeters)

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%

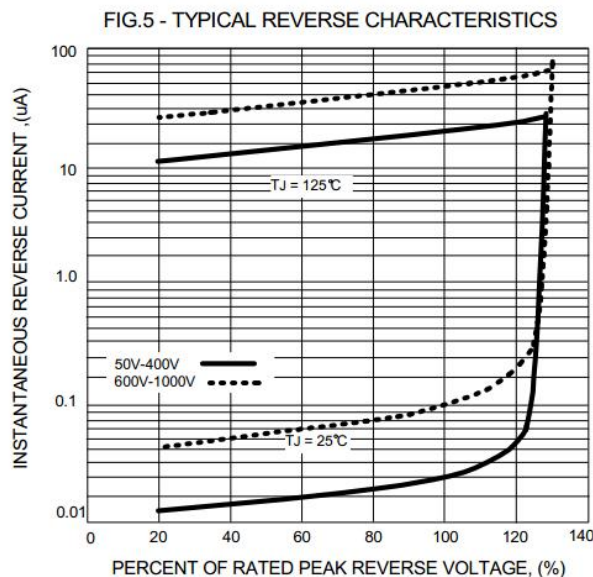
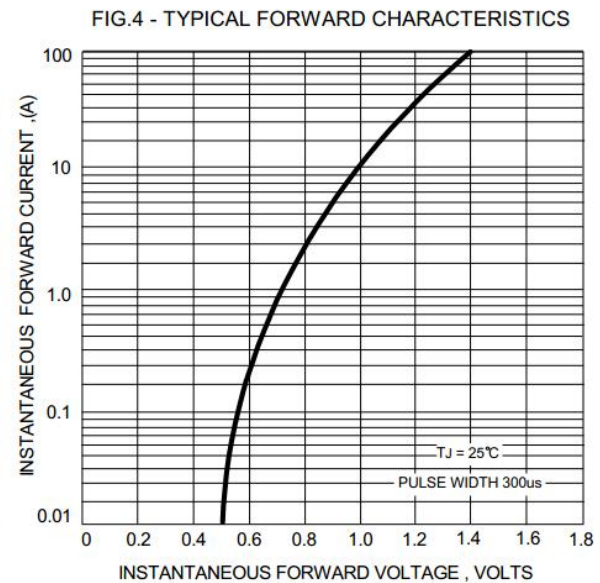
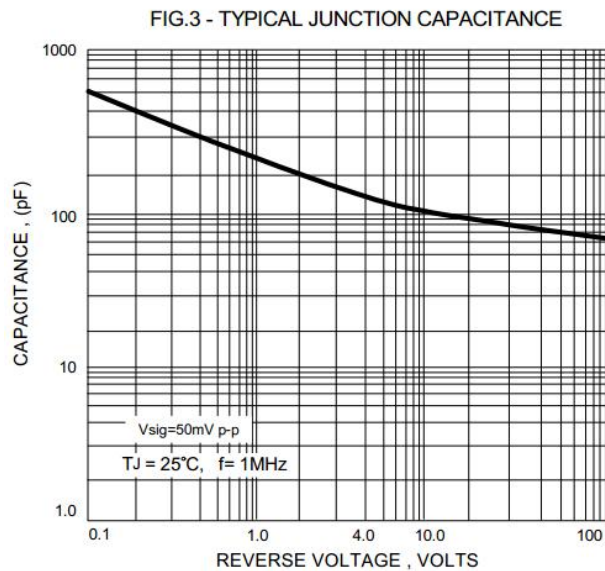
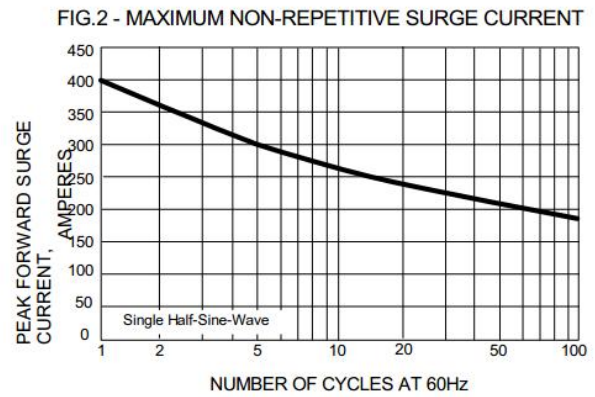
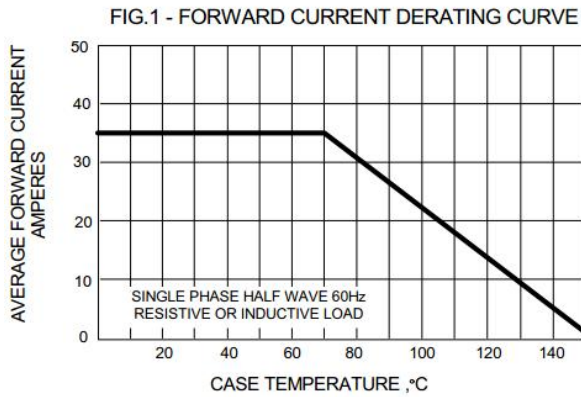
| PARAMETER | SYMBOL | GBPC 35005W | GBPC 3501W | GBPC 3502W | GBPC 3504W | GBPC 3506W | GBPC 3508W | GBPC 3510W | UNIT |
|---|-----------------|-------------|------------|------------|------------|------------|------------|------------|---------------------------|
| Maximum Recurrent Peak Reverse Voltage | 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(with heatsink Note 2) Rectified Current @ $T_C=110^\circ\text{C}$ (without heatsink) | $I_{(AV)}$ | 35.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 400 | | | | | | | A |
| Maximum forward Voltage at 17.5A DC | V_F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at Rated DC Blocking voltage @ $T_J=125^\circ\text{C}$ | I_R | 500 | | | | | | | μA |
| I^2t Rating for fusing($t<8.3\text{ms}$) | I^2t | 660 | | | | | | | A^2S |
| Typical Junction Capacitance per element(Note 1) | C_J | 150 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JC}$ | 1.4 | | | | | | | $^\circ\text{C}/\text{W}$ |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

- Note : 1. Measured at non-repetitive, for greater than 1ms and less than 8.3ms.
 2.Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.
 3. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

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RATING AND CHARACTERISTIC CURVES GBPC35005W THRU GBPC3510W



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.