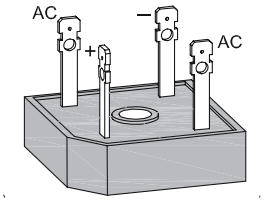
# 35.0A Glass Passivated Bridge Rectifier




TB35

## Features

- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds, 5 lbs (2.3kg) tension
- RoHS Compliant

## Mechanical Data

| | |
|---|---|
| **Case:** | Molded plastic body with Metal Heat Sink |
| **Polarity:** | Polarity symbols marked on case |
| **Terminals:** | Plated 0.25" (6.35mm) lug |
| **Mounting Position:** | Thru hole for #10 screw,20 in -lbs. torque max |
| **Weight:** | 0.53 ounce, 15 grams |

## Maximum Ratings & Electrical Characteristics *($T_{Ambient}$=25ºC unless noted otherwise)*

| Symbols | Description | TB3505G | TB351G | TB352G | TB354G | TB356G | TB358G | TB3510G | Unit |
|---|---|---|---|---|---|---|---|---|---|
| $V_{RRM}$ | Max. recurrent peak reverse voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| $V_{RMS}$ | Max. RMS voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| $V_{DC}$ | Max. DC blocking voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| $I_{O(AV)}$ | Max. average forward rectified current @ TC=50° C | 35.0 | | | | | | | A |
| $I_{FSM}$ | Peak forward surge current (Note 1) | 400 | | | | | | | A |
| $V_{ISO}$ | Isolation Voltage from case to lugs | 2500 | | | | | | | V |
| $C_J$ | Typical Capacitance Junction(per element)(Note 2) | 300 | | | | | | | pF |
| $T_J$ | Operating junction temperature range | -55 to +150 | | | | | | | ° C |
| $T_{STG}$ | Storage Temperature Range | -55 to +150 | | | | | | | ° C |

| Symbol | Description | | TB3505G | TB351G | TB352G | TB354G | TB356G | TB358G | TB3510G | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| $V_F$ | Maximum Instantaneous Forward Voltage Drop Per Leg@17.5 A | | 1.1 | | | | | | | V |
| $I_R$ | Maximum DC Reverse Current Rated DC Blocking Voltage | $T_A$=25° C | 10.0 | | | | | | | uA |
| | | $T_A$=125° C | 500 | | | | | | | uA |
| $R_{\theta-JC}$ | Maximum Thermal Resistance (Note 3) | | 1.9 | | | | | | | ° C/W |

**NOTES:**

1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method).
2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
3. Thermal resistance junction to case mounted on heat sink.

## Typical Characteristics Curves

**Fig.1- Typical Forward Current Derating Curve**

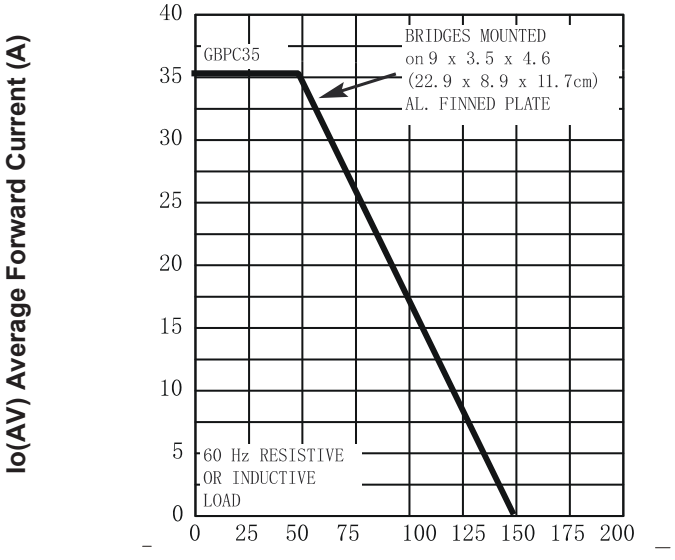



**Fig.2-Max. Non-repetitive Peak Forward Surge Current**

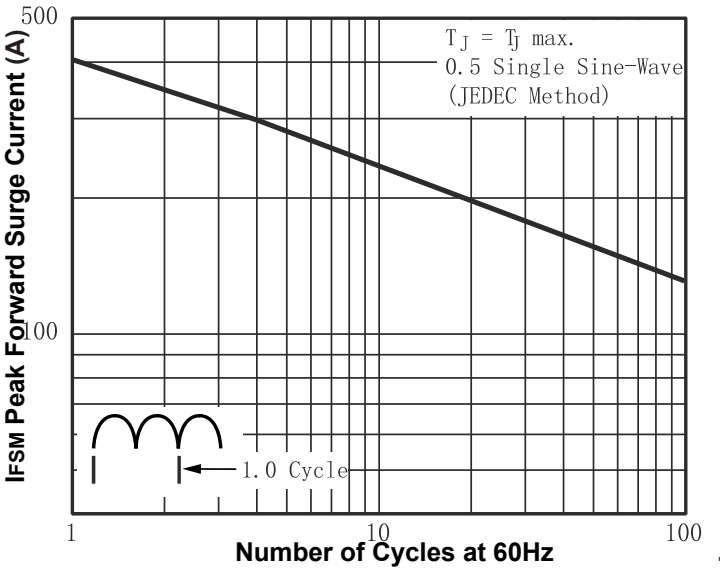


**Fig.3- Typical Instantaneous Forward Characteristics**

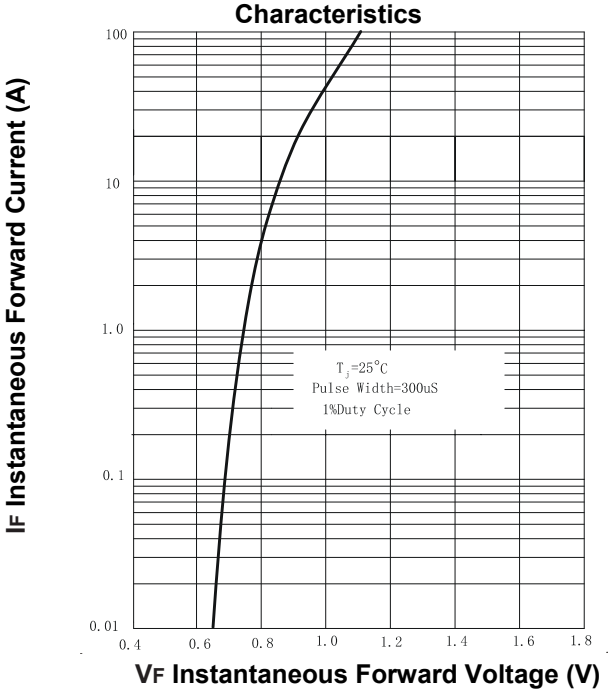



**Fig.4- Typical Reverse Characteristics**

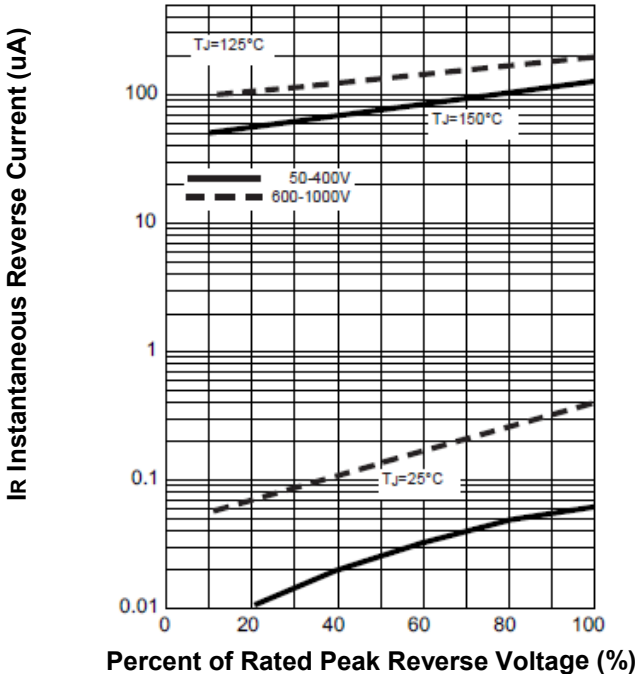
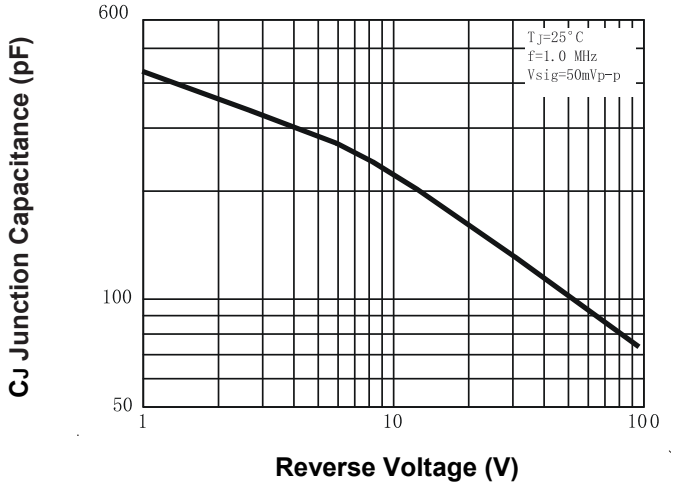
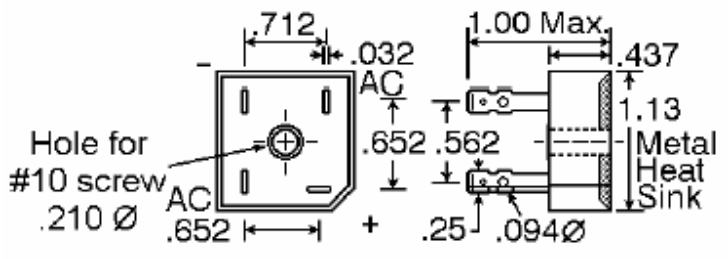



**Fig.5-Typical junction capacitance**



## Dimensions in inches (mm)

**TB35**



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