

15.0Amp Glass passivated Bridge Rectifiers
FEATURES :

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High current capability
- Glass passivated junction chip
- Low forward voltage drop.
- High temperature soldering guaranteed
260 C/10 seconds at terminals
- RoHS compliant.


MECHANICAL DATA :

Case : Molded plastic body, GBJ
 Terminals : Solder plated, solderable per MIL-STD-750,
 Method 2026
 Polarity : As Marked on Body
 Mounting Position : Any

MAXIMUM RATINGS (Ratings at 25 °C ambient temperature unless otherwise specified)
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Characteristic | Symbol | GBJ 1501 | GBJ 1502 | GBJ 1504 | GBJ 1506 | GBJ 1508 | GBJ 1510 | Unit |
|--|-------------|----------|----------|----------|----------|----------|----------|------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified current | $I_{F(AV)}$ | 15 | | | | | | A |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 220 | | | | | | A |
| Rating for fusing (t=8.3ms, Ta=25 °C) | I^2t | 200 | | | | | | A ² s |
| Maximum instantaneous forward voltage at 7.5A | V_F | 1.10 | | | | | | V |
| Maximum DC reverse current at rated DC blocking voltage (T _J =25 °C / 125 °C) | I_R | 5 / 100 | | | | | | uA |

| | | | |
|--|------------------------------------|-----------|------|
| Typical thermal resistance | $R_{\theta JA}$ $R_{\theta JC}$ | 18 1.5 | °C/W |
| Operating junction and storage temperature range | T_J, T_{STG} | -55~+150 | °C |

RATINGS AND CHARACTERISTICS CURVES

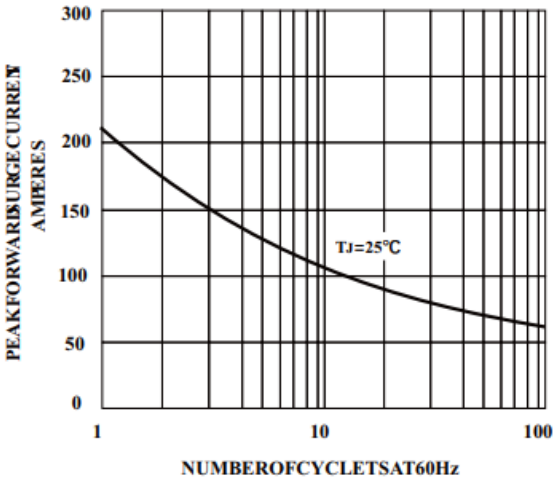


Figure 1. MAXIMUM FORWARD SURGE CURRENT

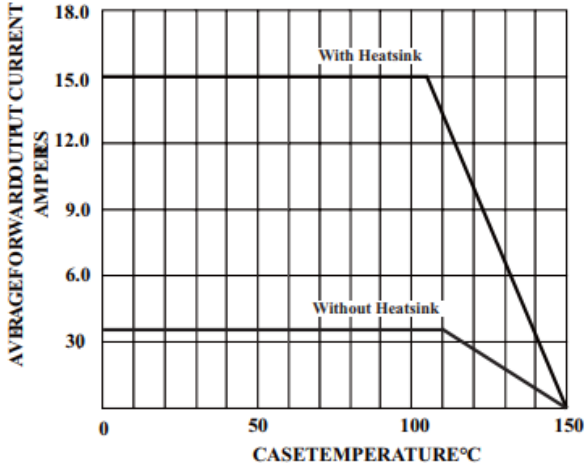


Figure 2. FORWARD CURRENT DERATING CURVE

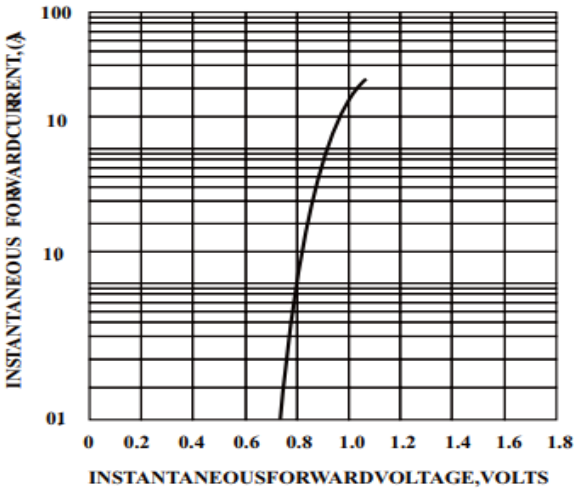


Figure 3. TYPICAL FORWARD CHARACTERISTICS

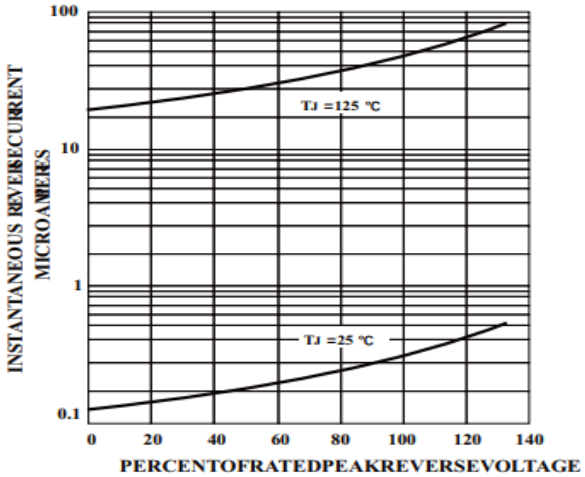
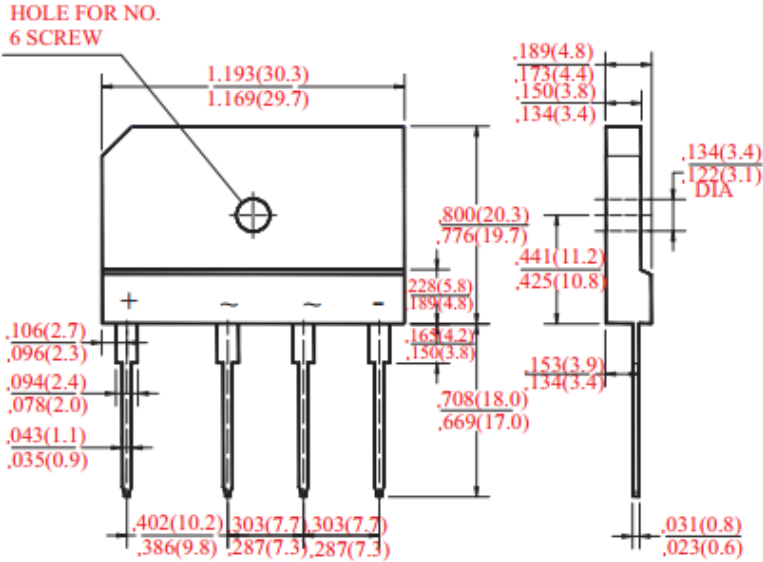
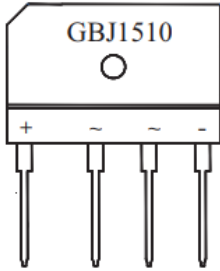


Figure 4. TYPICAL REVERSE CHARACTERISTICS

• Package outlines : Dimensions in inches and (millimeters)



• Marking :



| Part No | Marking code |
|---------|--------------|
| GBJ1501 | GBJ1501 |
| GBJ1502 | GBJ1502 |
| GBJ1504 | GBJ1504 |
| GBJ1506 | GBJ1506 |
| GBJ1508 | GBJ1508 |
| GBJ1510 | GBJ1510 |

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