

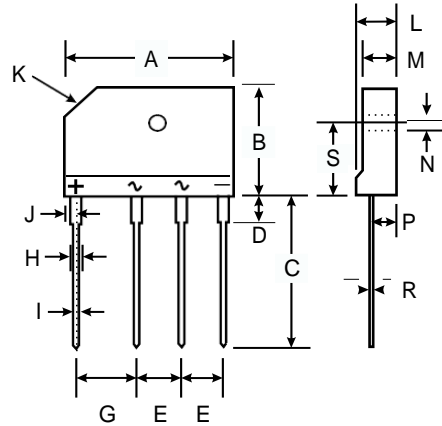
35A Glass Passivated Bridge Rectifier

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 400A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material - UL Flammability Classification 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Molded on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 in-lbs Maximum
- Weight: 6.6 grams (approx)
- Marking: Type Number



| GBJ | | |
|----------------------|-----------|-------|
| Dim | Min | Max |
| A | 29.70 | 30.30 |
| B | 19.70 | 20.30 |
| C | 17.00 | 18.00 |
| D | 3.80 | 4.20 |
| E | 7.30 | 7.70 |
| G | 9.80 | 10.20 |
| H | 2.00 | 2.40 |
| I | 0.90 | 1.10 |
| J | 2.30 | 2.70 |
| K | 3.0 X 45° | |
| L | 4.40 | 4.80 |
| M | 3.40 | 3.80 |
| N | 3.10 | 3.40 |
| P | 2.50 | 2.90 |
| R | 0.60 | 0.80 |
| S | 10.80 | 11.20 |
| All Dimensions in mm | | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

| MDD Catalog Number | SYMBOLS | GBJ 35005 | GBJ 3501 | GBJ 3502 | GBJ 3504 | GBJ 3506 | GBJ 3508 | GBJ 3510 | UNITS |
|--|-------------------|-------------|----------|----------|----------|----------|----------|----------|------------------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum Average Forward (with heat sink Note 2) Rectified Current @ T _c = 100°C (without heat sink) | I _(AV) | 35.0 5.0 | | | | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 400 | | | | | | | Amps |
| Maximum instantaneous forward voltage drop per bridge element at 17.5A | V _F | 1.1 | | | | | | | Volts |
| Maximum DC reverse current at rated DC blocking voltage T _A = 25°C T _A = 125°C | I _R | 10 0.5 | | | | | | | μA mA |
| I _t Rating for Fusing (t < 8.3ms) | I ² t | 510 | | | | | | | A ² s |
| Typical Junction Capacitance (Note 1) | C _J | 85 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{θJC} | 0.6 | | | | | | | °C/W |
| Operating junction temperature range | T _J | -55 to +150 | | | | | | | °C |
| storage temperature range | T _{STG} | -55 to +150 | | | | | | | °C |

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 75mm*75mm*1.6mm Cu plate heat sink.

3. The typical data above is for reference only (典型值仅供参考).

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RATINGS AND CHARACTERISTIC CURVES GBJ35005 THRU GBJ3510

FIG.1-FORWARD CURRENT DERATING CURVE

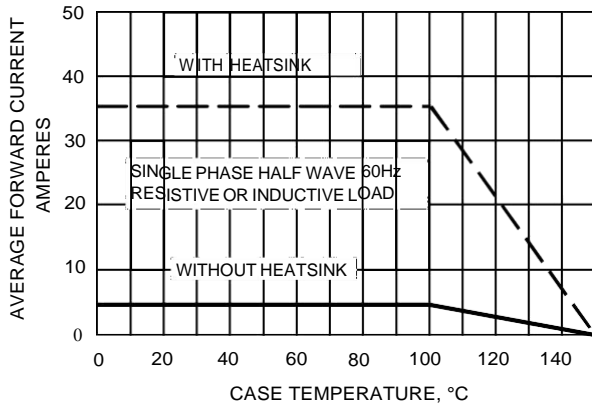


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

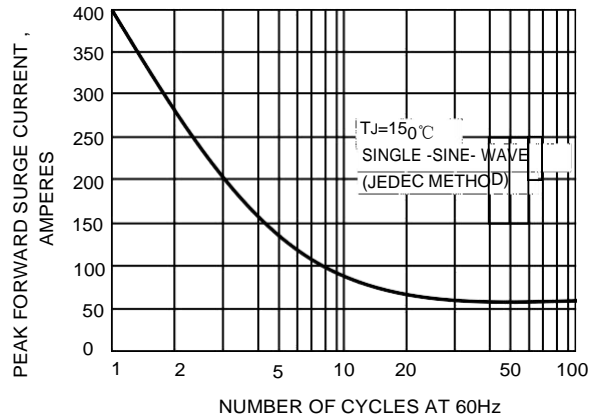


FIG.3-TYPICAL REVERSE CHARACTERISTICS

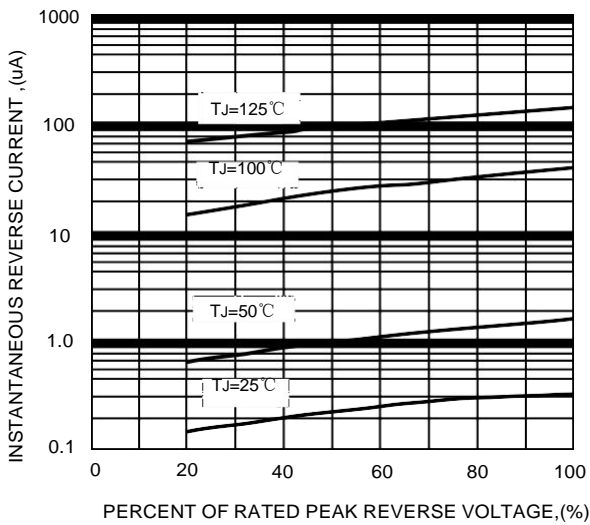
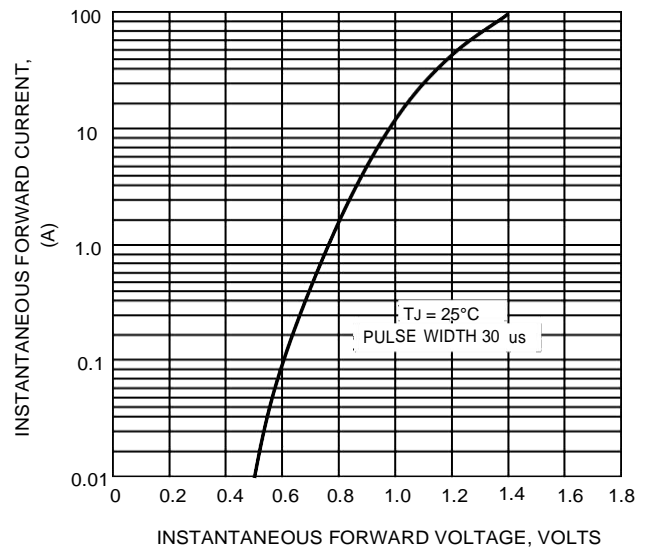


FIG.4-TYPICAL FORWARD CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment.