

GBJ3506 thru GBJ3510

REVERSE VOLTAGE – 600 to 1000 Volts

FORWARD CURRENT – 35 Amperes

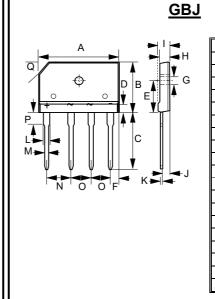
GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- · Ideal for printed circuit board
- High surge current capability.
- ESD capability: Machine mode, C (> 400 V) Human body model, 3B (> 8 kV)
- UL recognized file # E95060

MECHANICAL DATA

- · Case: GBJ
- Case Material: Plastic material, UL flammability classification 94V-0
- Component in accordance to RoHs 2002/95/EC
- Polarity indicator: Symbol molded on body
- Weight: 0.23 ounces, 6.6 grams
- Mounting position: Any



| | GBJ | | |
|-----------------------------|-------------|-------|--|
| DIM. | MIN. MAX. | | |
| Α | 29.70 | 30.30 | |
| В | 19.70 | 20.30 | |
| С | 17.0 | 18.0 | |
| D | 4.70 | 4.90 | |
| Е | 10.80 | 11.20 | |
| F | 2.30 | 2.70 | |
| G | 3.10Ø | 3.40Ø | |
| Н | 3.40 | 3.80 | |
| | 4.40 | 4.80 | |
| J | 2.50 | 2.90 | |
| κ | 0.60 | 0.80 | |
| L | 2.00 | 2.40 | |
| М | 0.90 | 1.10 | |
| Ν | 9.80 | 10.20 | |
| 0 | 7.30 | 7.70 | |
| Р | 3.80 | 4.20 | |
| Q | (3.0) x 45° | | |
| All dimension in millimeter | | | |
| | | | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

| PARAMETER | | SYMBOL | GBJ3506 | GBJ3508 | GBJ3510 | UNIT |
|--|---------|------------------|-------------|---------|------------------|------|
| Device marking code | | Note | GBJ3506 | GBJ3508 | GBJ3510 | |
| Maximum repetitive peak reverse voltage | | VRRM | 600 | 800 | 1000 | V |
| Average rectified output current with heatsink T_c = 80°C without heatsink T_a = 25°C | | IF (AV) | 35 3.6 | | А | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load. | TJ=25°C | IFSM | 400 | | | А |
| I ² t rating for fusing (t = 8.3ms) | | l²t | 664 | | A ² S | |
| Mounting torque (recommended torque: 0.5 N.m) | | TOR | 0.8 | | N.m | |
| Operating junction temperature range | | TJ | -40 to +150 | | °C | |
| Storage temperature range | | T _{STG} | -55 to +150 | | | °C |

STATIC ELECTRICAL CHARACTERISTICS

| PARAMETER | TEST CONDITIONS | | PARAMETER TEST CONDITIONS SYMI | | SYMBOL | МАХ | UNIT |
|--------------------------------------|-----------------|-----------------------|--------------------------------|-----------|--------|-----|------|
| Forward voltage | IF=17.5A | TJ=25°C | VF | 1.1 | V | | |
| Leakage current | VR rated | TJ =25°C TJ =125°C | IR | 10 500 | uA | | |
| Typical junction capacitance (Note1) | | | CJ | 150 | pF | | |

THERMAL CHARACTERISTICS

| PARAMETER | SYMBOL | TYF | P. | UNIT |
|------------------------------------|----------------------------|------------|---------------------|------|
| Typical thermal resistance (Note2) | RthJ _C RthJ∟ | 1.0 1.5 | | °C/W |
| Note · | | | REV. 4, Apr2019, KB | DG14 |

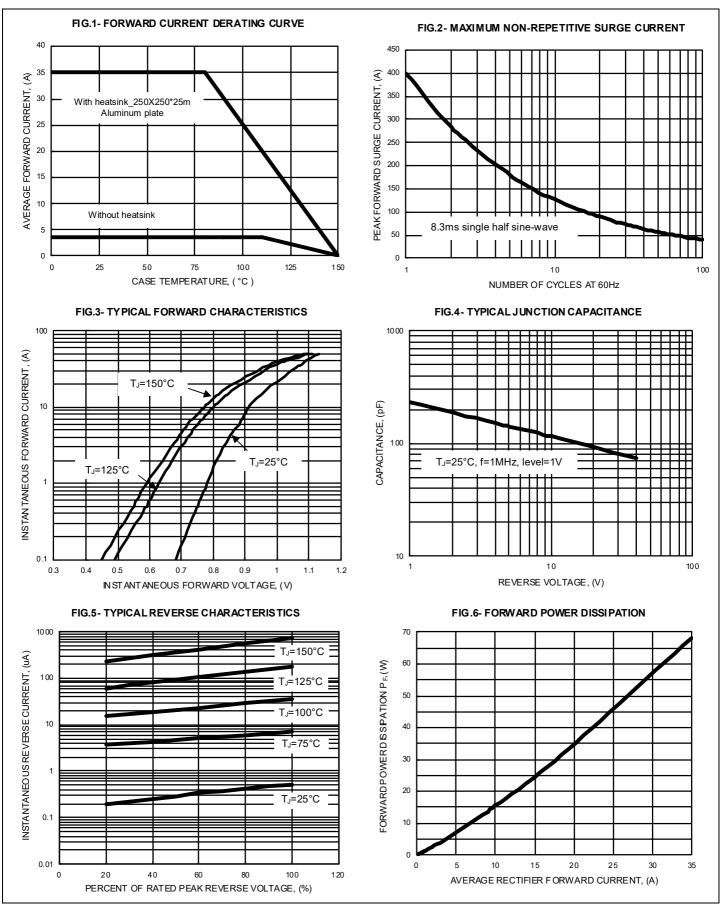
Note :

(1) Measured at 1.0MHz and applied voltage of 4.0VDC.

(2) Thermal resistance test performed in accordance with JESD-51. Device mounted on 250mm x 250mm x 25mm Al plate heatsink.

RATING AND CHARACTERISTIC CURVES GBJ3506 thru GBJ3510

LITEON



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