

Glass Passivated Low VF Bridge Rectifier

Voltage

800 V

Current

25A

Features

• Glass passivated chip junction

- UL recognition file number E526209
- Low forward voltage drop
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

• Case: GBJ-2 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 6.6972 grams

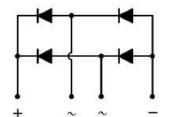
Application

- Computing Power,
- Server Power/IND/EV
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board
- TV Power

| Key Parameters | | | |
|-----------------------------|-------|--|--|
| Parameter | Value | | |
| V_{RRM} | 800V | | |
| I _F (AV) | 25A | | |
| I _{FSM} | 500A | | |
| V _F @125°C,(typ) | 0.82V | | |
| I _R | 5uA | | |
| Package | GBJ-2 | | |

GBJ-2







Maximum Ratings and Thermal Characteristics ($T_A = 25$ °C unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS | | |
|--|---------------------------|--------------------|------------------|-------|--|
| Maximum Repetitive Peak Reverse Voltage | | V _{RRM} | 800 | V | |
| Maximum RMS Voltage | | V _{RMS} | 560 | V | |
| Maximum DC Blocking Voltage | | V _{DC} | 800 | V | |
| Maximum Average Forward Current | With heatsink | | 25 | А | |
| | Without heatsink | I _{F(AV)} | 4 | | |
| Peak Forward Surge Current: 8.3 ms | @ T _A = 25 °C | | 500 | А | |
| Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 125 °C | I _{FSM} | 400 | | |
| Peak Forward Surge Current : 1.0 ms | @ T _A = 25 °C | | 1000 | А | |
| Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 125 °C | IFSM | 800 | | |
| I ² t rating for fusing (t = 8.3ms) | I²t | 1038 | A ² S | | |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$ | 1 | C₁ | 200 | pF | |
| Typical Thermal Resistance (Note 1) | | R _{0JA} | 8 | °C/W | |
| | | Rejl | 2 | | |
| | | R ₀ JC | 2 | | |
| Operating junction and storage temperature range | | TJ, TSTG | -55~150 | °C | |
| Mounting torque @ Recommend torque:5Kg.cm | | Tor | 8 | Kg.cm | |

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

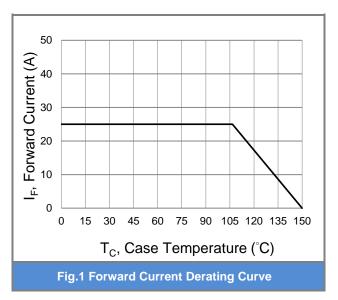
| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-----------------|----------------|--|------|------|------|-------|
| Forward Voltage | VF | I _F = 12.5 A, T _J = 25 °C | ı | ı | 0.94 | |
| | | I _F = 12.5 A, T _J = 125 °C | ı | 0.82 | ı | V |
| Reverse Current | I _R | V _R = 800 V, T _J = 25 °C | - | - | 5 | • |
| | | V _R = 800 V,T _J = 125 °C | - | - | 100 | uA |

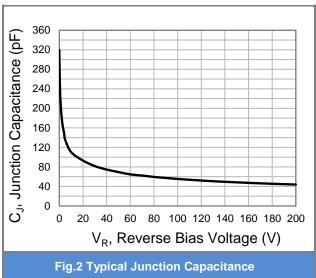
NOTES:

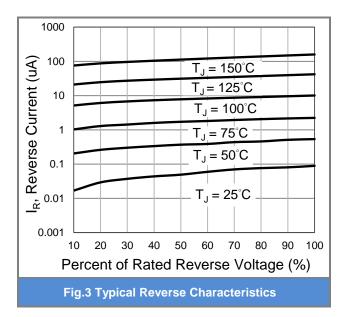
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink.

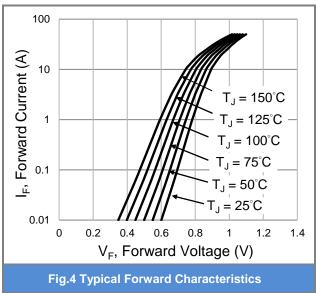


TYPICAL CHARACTERISTIC CURVES







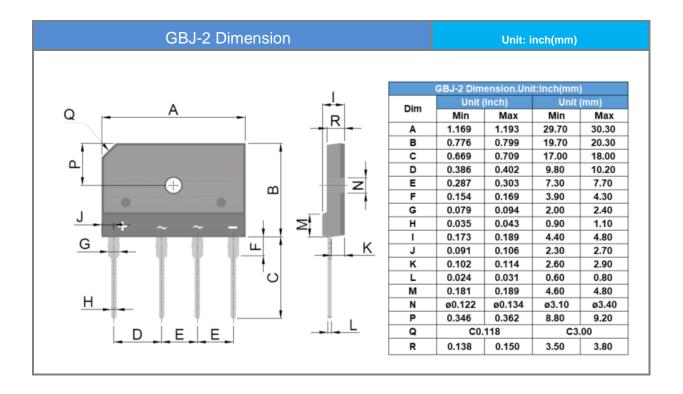




Part No. Marking Code Version

| Approved Part No. | Package Type | Packing Type | Marking |
|-------------------|--------------|---------------|-----------|
| GBJ2508LV | GBJ-2 | 15 pcs / tube | GBJ2508LV |

Packaging Information





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