

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

25A

HF

Features

- Glass passivated chip junction
- Superior thermal conductivity
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

• Case: GBU-2 Package

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

• Approx. Weight: 3.8348 grams

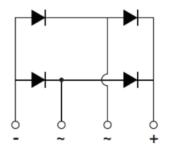
Application

- Computing Power / Desktop Power
- Game Console Power
- Server Power
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board

| Key Parameters | | | |
|---------------------|-------|--|--|
| Parameter | Value | | |
| V_{RRM} | 1000V | | |
| I _F (AV) | 25A | | |
| I _{FSM} | 350A | | |
| I _R | 5uA | | |
| T₃ max. | 175°C | | |
| Package | GBU-2 | | |

GBU-2







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

| PARAMETER | SYMBOL | LIMIT | UNITS | |
|--|-----------------------------------|--------------------|------------------|-----|
| Maximum Repetitive Peak Reverse Voltage | | V _{RRM} | 1000 | V |
| Maximum RMS Voltage | | V _{RMS} | 700 | V |
| Maximum DC Blocking Voltage | | V _{DC} | 1000 | V |
| Maximum Average Forward Current | With heatsink | | 25 | |
| | Without heatsink | I _{F(AV)} | 4 | A |
| Peak Forward Surge Current: 8.3 ms | @ T _A = 25 °C | | 350 | |
| Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 125 °C | I _{FSM} | 280 | _ A |
| Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 25 °C | | 700 | А |
| | @ T _A = 125 °C | IFSM | 560 | |
| I ² t rating for fusing (t = 8.3ms) | l²t | 508.3 | A ² S | |
| Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 | Сл | 100 | pF | |
| | Reja | 6 | | |
| Typical Thermal Resistance (Note 1) | ReJL | 3 | °C/W | |
| | R _{eJC} | 2 | | |
| Operating junction and storage tempera | T _J , T _{STG} | -55~175 | °C | |
| Mounting torque @ Recommend torque | Tor | 8 | Kg.cm | |

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

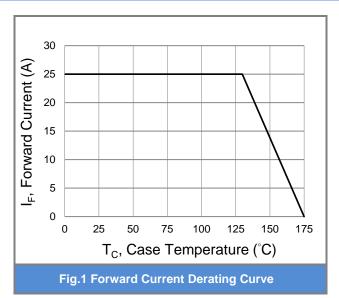
| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-----------------|----------------|---|------|------|------|-------|
| Forward Voltage | V _F | I _F = 12.5 A, T _J = 25 °C | 1 | ı | 1.05 | V |
| Reverse Current | I _R | V _R = 1000 V, T _J = 25 °C | - | - | 5 | ۸ |
| | | V _R = 1000 V,T _J = 125 °C | - | - | 100 | uA |

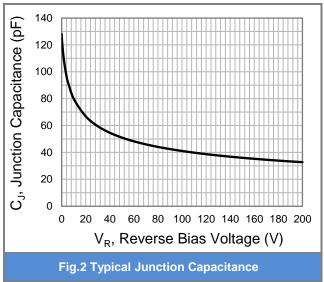
NOTES:

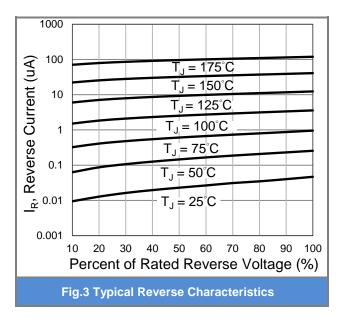
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink

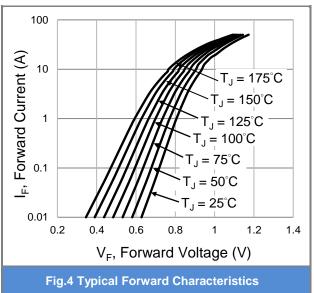


TYPICAL CHARACTERISTIC CURVES







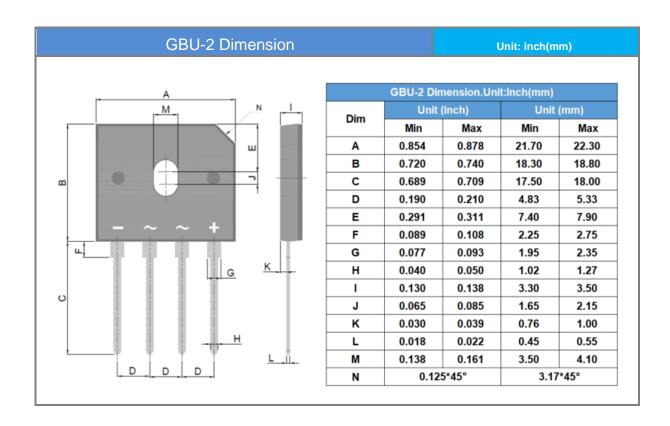




Part No. Marking Code Version

| Approved Part No. | Package Type | Packing Type | Marking |
|-------------------|--------------|---------------|----------|
| GBU2510H | GBU-2 | 20 pcs / tube | GBU2510H |

Packaging Information





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