

800V With High Tj Ultra Low VF Bridge Rectifier

Voltage

800 V

Current

35A

HF

GBU-2

Features

- Oxide planar chip junction
- Low forward voltage drop (VF@0.72V)
- Low leakage current (IR@20uA)
- 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



• Power: / Server / AI / IND

PC Power: 80+Platinum / Titanium

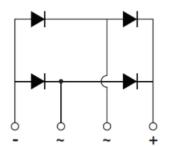
• Power: Redundant / Telecom

• Gaming Power: NB / PC

• PD > 100W

| Key Parameters | | | |
|-----------------------|-------|--|--|
| Parameter | Value | | |
| V _{RRM} | 800V | | |
| I _F (AV) | 35A | | |
| I _{FSM} | 400A | | |
| V _F @175°C | 0.72V | | |
| I _R | 1uA | | |
| T」 max. | 175°C | | |
| Package | 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} | 800 | V | |
| Maximum RMS Voltage | | V _{RMS} | 560 | V | |
| Maximum DC Blocking Voltage | | V _{DC} | 800 | V | |
| Maximum Average Forward Current | With heatsink | | 35 | А | |
| | Without heatsink | I _{F(AV)} | 5.1 | | |
| Peak Forward Surge Current: 8.3 ms | @ T _A = 25 °C | | 400 | Α | |
| Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 125 °C | IFSM | 320 | | |
| Peak Forward Surge Current : 1.0 ms | @ T _A = 25 °C | | 760 | А | |
| Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 125 °C | IFSM | 600 | | |
| I ² t rating for fusing (t = 8.3ms) | I²t | 664 | A ² S | | |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$ | Сл | 250 | pF | | |
| | Reja | 6 | °C/W | | |
| Typical Thermal Resistance (Note 1) (with heatsink) | | ReJL | | | 3 |
| | | ReJC | | | 1 |
| Operating junction and storage tempera | T _J , T _{STG} | -55~175 | °C | | |
| Mounting torque @ Recommend torque:5Kg.cm | | Tor | 8 | Kg.cm | |

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

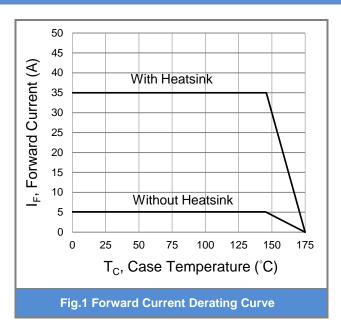
| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-----------------|----------------|--|------|------|------|-------|
| Forward Voltage | VF | I _F = 17.5 A, T _J = 25 °C | - | 0.88 | 0.92 | |
| | | I _F = 17.5 A, T _J = 125 °C | - | 0.75 | ı | V |
| Reverse Current | I _R | V _R = 800 V, T _J = 25 °C | - | 0.2 | 1 | |
| | | V _R = 800 V,T _J = 125 °C | - | 20 | - | uA |

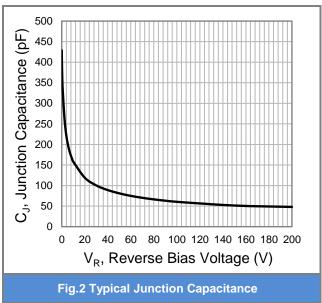
NOTES:

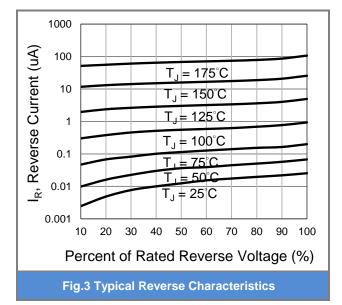
1. Device mounted on 100 mm * 94 mm * 26 mm Fin type heat sink.

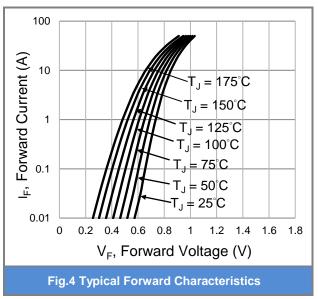


TYPICAL CHARACTERISTIC CURVES







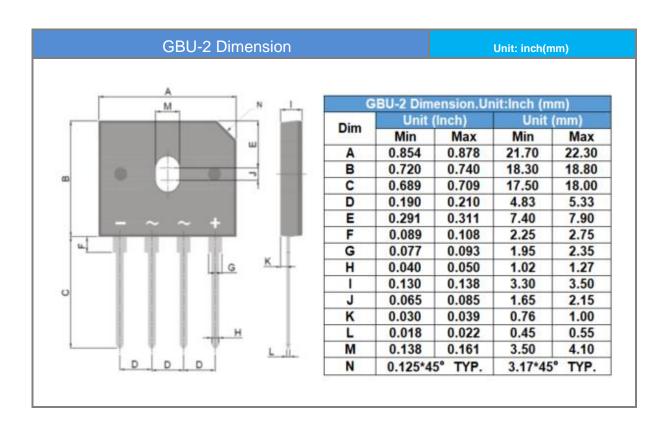




Product and Packing Information

| Part No. | Package Type | Packing Type | Marking |
|-------------|--------------|---------------|-------------|
| GBU3508HULV | GBU-2 | 20 pcs / tube | GBU3508HULV |

Packaging Information







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