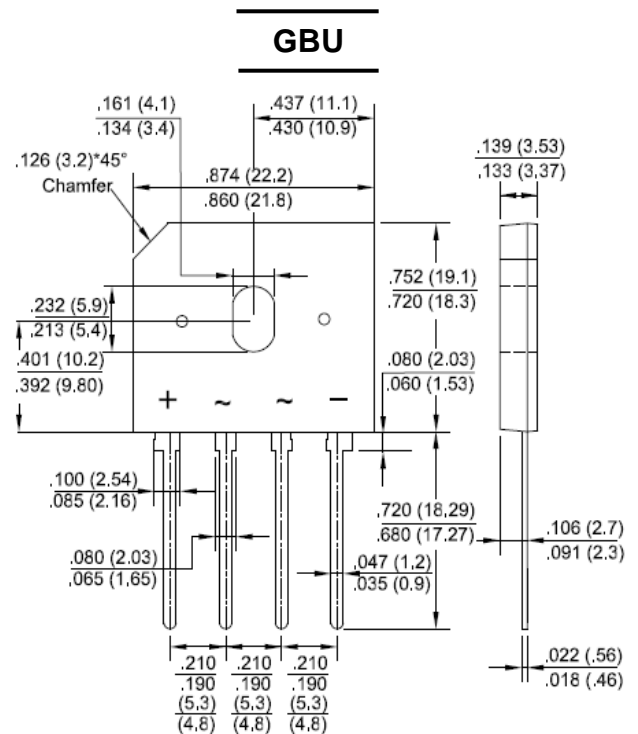


GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 25.0 Amperes

FEATURES

- Surge overload rating -350 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0
- Mounting position:Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | GBU 25005 | GBU 2501 | GBU 2502 | GBU 2504 | GBU 2506 | GBU 2508 | GBU 2510 | UNIT |
|--------------------------------------------------------------------------------------------------------|-------------------|-------------|----------|----------|----------|----------|----------|----------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @ T _c =100°C (with heatsink Note 2) | I _(AV) | 25.0 | | | | | | | A |
| @ T _c =100°C (without heatsink) | | 4.2 | | | | | | | |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | I _{FSM} | 350 | | | | | | | A |
| Maximum Forward Voltage at 12.5A DC | V _F | 1.0 | | | | | | | V |
| Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C | I _R | 5.0 | | | | | | | μA |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | 508 | | | | | | | A ² s |
| Typical Junction Capacitance Per Element (Note1) | C _J | 70 | | | | | | | pF |
| Typical Thermal Resistance to Ambient (Note2) | R _{θJA} | 10 | | | | | | | °C/W |
| Typical Thermal Resistance to case(Note2) | R _{θJC} | 2 | | | | | | | |
| Typical Thermal Resistance to lead (Note2) | R _{θJL} | 2.2 | | | | | | | |
| Operating 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 100mm*100mm*1.6mm Cu plate heatsink.

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

FIG.1-MAXIMUM FORWARD SURGE CURRENT

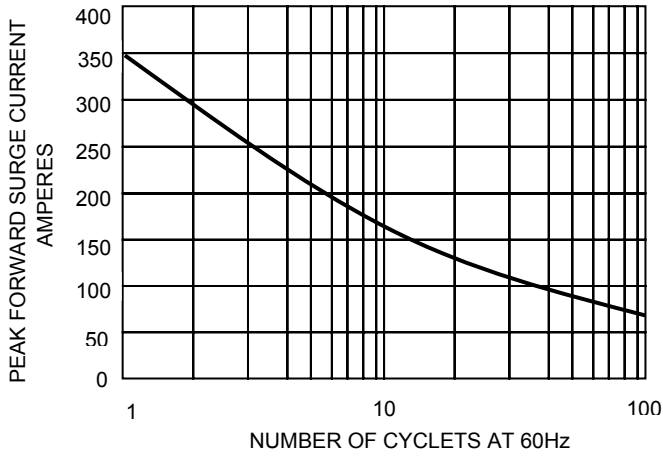


FIG.2- DERATING CURVE
 OUTPUT RECTIFIED CURRENT

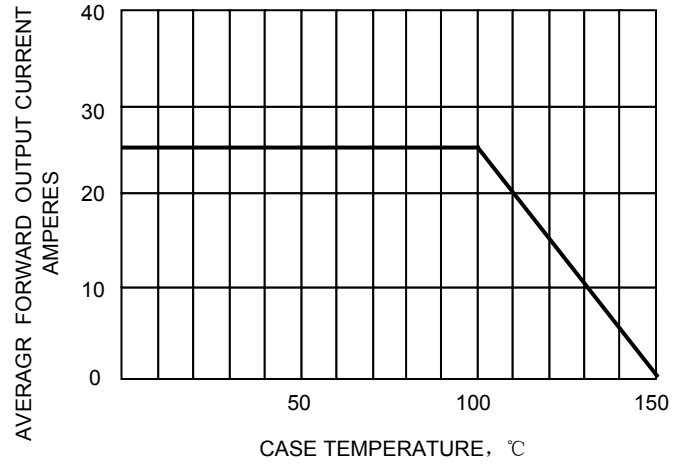


FIG.3-TYPICAL REVERSE CHARACTERISTICS

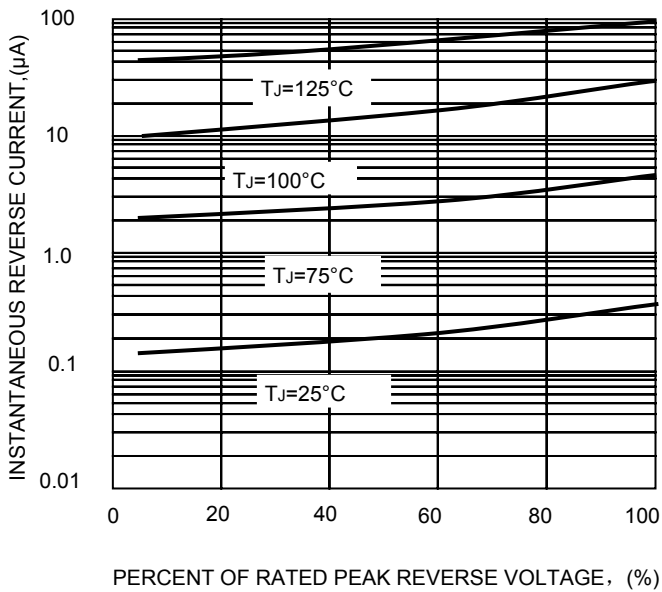
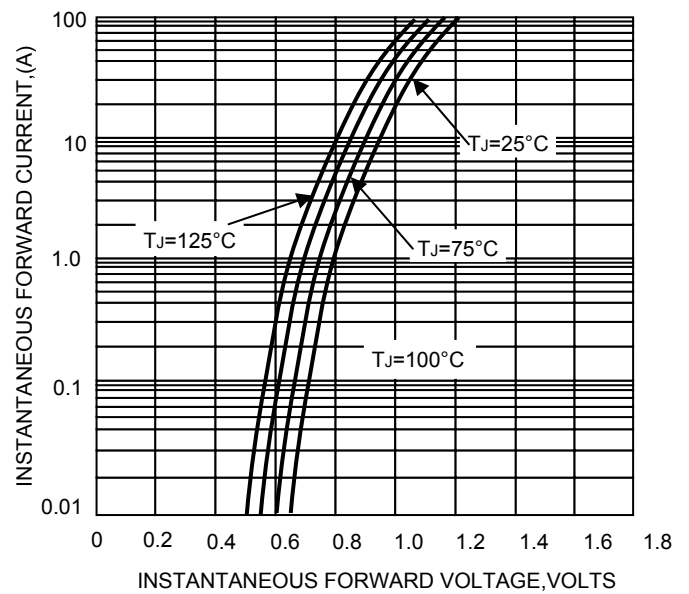


FIG.4-TYPICAL FORWARD CHARACTERISTICS



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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