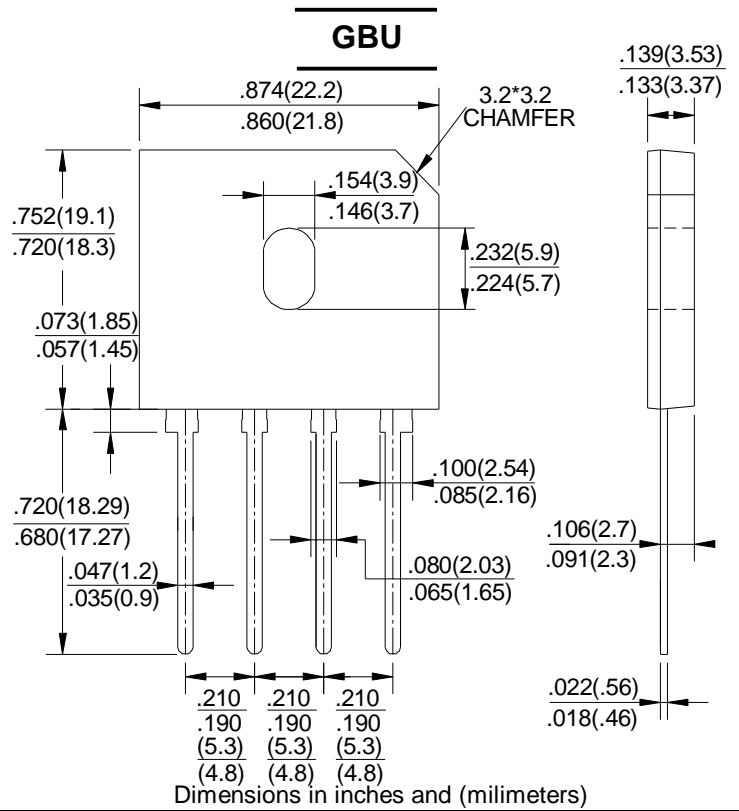


| | |
|---|--|
| GLASS PASSIVATED BRIDGE RECTIFIERS | REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 4.0 Amperes |
|---|--|

FEATURES

- Surge overload rating -150 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 | GBU4005 | GBU401 | GBU402 | GBU404 | GBU406 | GBU408 | GBU410 | UNIT | |
|---|-------------------|-------------|--------|--------|--------|--------|--------|--------|------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| Maximum RMS Voltage | V _{RMS} | 30 | 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 (with heatsink Note 2) @ T _c =100°C (without heatsink) | I _(AV) | 4.0 2.4 | | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | I _{FSM} | 150 | | | | | | | | A |
| Maximum Forward Voltage at 4.0A DC | V _F | 1.1 | | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 10.0 500 | | | | | | | | uA |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | 93 | | | | | | | | A ² s |
| Typical Junction Capacitance Per Element (Note1) | C _J | 45 | | | | | | | | pF |
| Typical Thermal Resistance (Note2) | R _{θJC} | 2.2 | | | | | | | | °C/W |
| 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 50mm*50mm*1.6mm cu plate heatsink.

FIG.1-FORWARD CURRENT DERATING CURVE

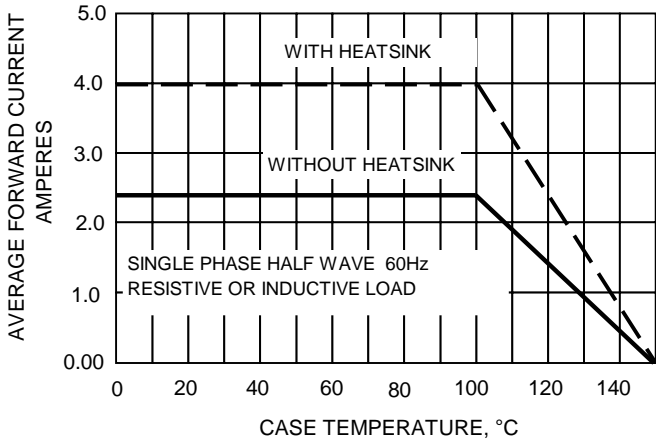


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

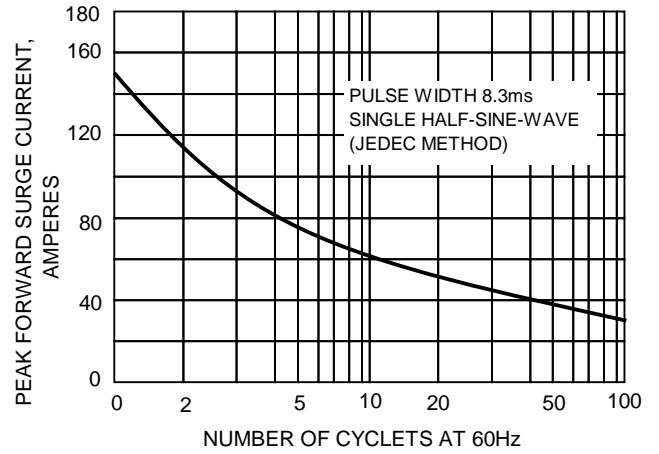


FIG.3-TYPICAL JUNCTION CAPACITANCE

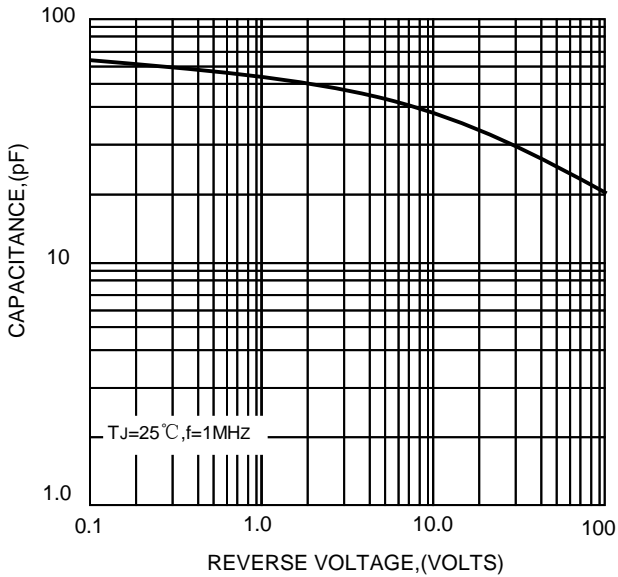


FIG.4-TYPICAL FORWARD CHARACTERISTICS

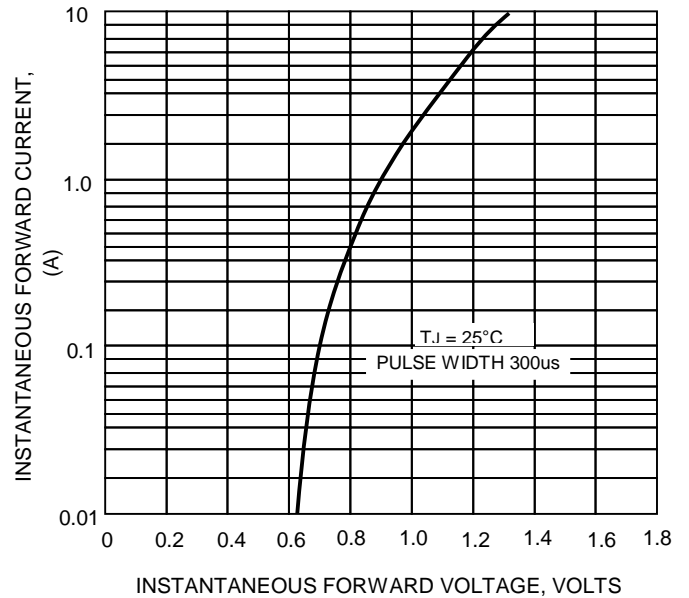


FIG.5-TYPICAL REVERSE CHARACTERISTICS

