- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

- : GBU
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- As marked on body

■ (Ta=25 Unless otherwise specified Å

| | | | | |
|---|---|---|---|---|
| Device marking code | | | | EGBU1506 |
| Maximum Repetitive Peak Reverse Voltage | | $V_{RRM}$ | V | 600 |
| Maximum RMS Voltage | | $V_{RMS}$ | V | 420 |
| Maximum DC blocking Voltage | | $V_{DC}$ | V | 600 |
| Average rectified output current @60Hz sine wave, R-load | With heatsink Tc =100 - | $I_O$ | A | 15.0 |
| | Without heatsink Ta =25 - | | | 2.5 |
| Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25 | | $I_{FSM}$ | A | 180 |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 | | | | 360 |

■ ÄTa=25 - Unless otherwise specified Å

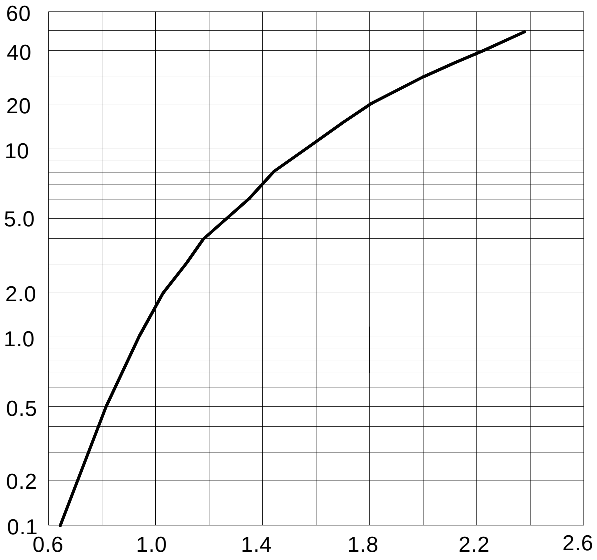
| | | | | |
|---|---|---|---|---|
| Maximum reverse recovery time | $T_{RR}$ | ns | $I_F$=0.5A,$I_R$=1.0A,<br>$I_{RR}$=0.25A | 35 |
| Maximum instantaneous forward voltage drop per diode | $V_F$ | V | $I_{FM}$=7.5A | 2.0 |
| Maximum DC reverse current at rated DC blocking voltage per diode | $I_R$ | μA | Tj =25 - | 5 |
| | | | Tj =125 - | 100 |
| Typical junction capacitance | Cj | pF | Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C | 65 |

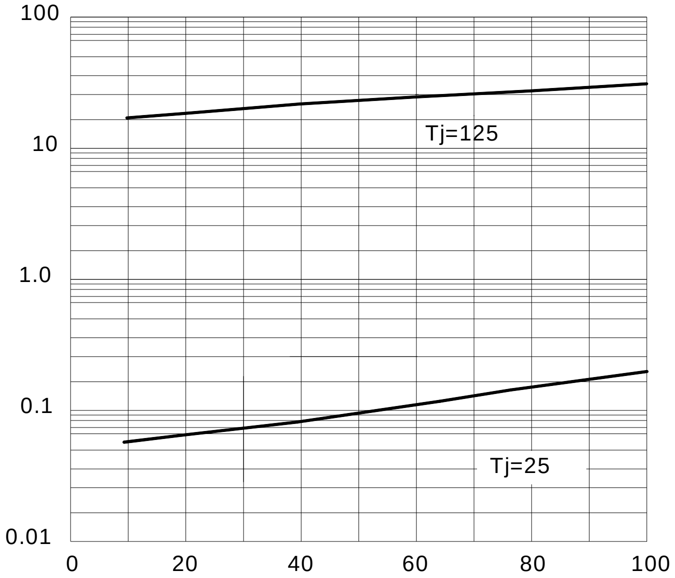
■ ÄTa=25 - Unless otherwise specified Å

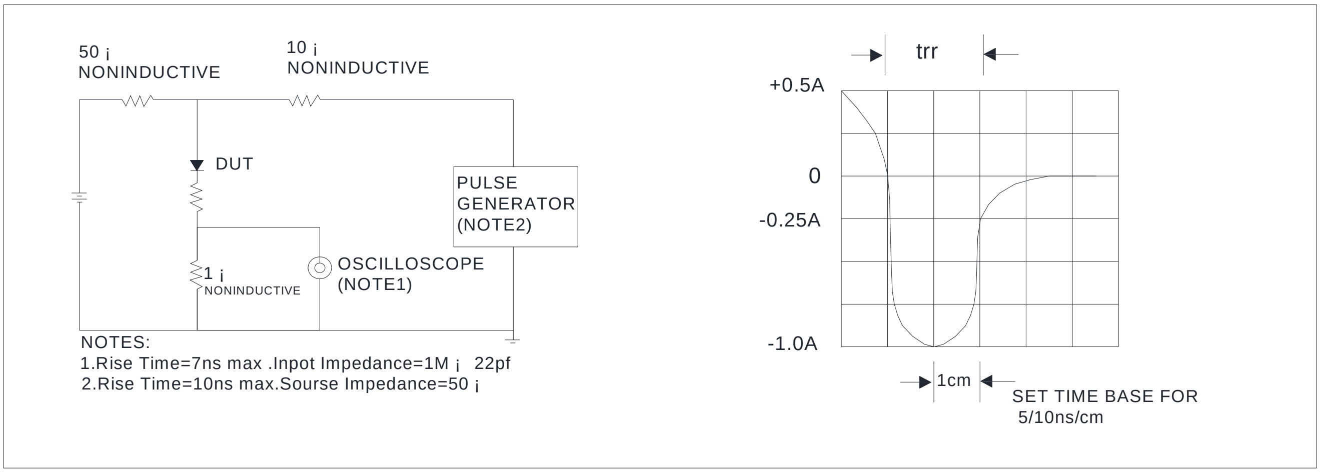
| | | | | |
|---|---|---|---|---|
| Thermal Resistance | Between junction and ambient, Without heatsink | $R_{θJ-A}$ | - /W | 20 |
| | Between junction and case, With heatsink | $R_{θJ-C}$ | | 2 |

ote: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

(Example)







NOTES:
1.Rise Time=7ns max .Inpot Impedance=1M ¡ 22pf
2.Rise Time=10ns max.Sourse Impedance=50 ¡

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| | | |
|---|---|---|
| Dim | Min | Max |
| A | 21.80 | 22.30 |
| B | 18.30 | 18.80 |
| C | 17.50 | 18.00 |
| D | 3.30 | 3.90 |
| E | 7.10 | 7.50 |
| F | 5.50 | 5.90 |
| G | 1.91 | 2.54 |
| H | 2.06 | 2.54 |
| I | 1.02 | 1.27 |