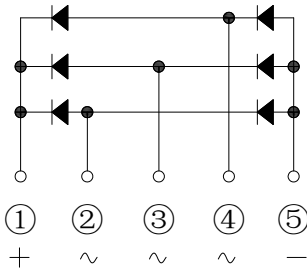
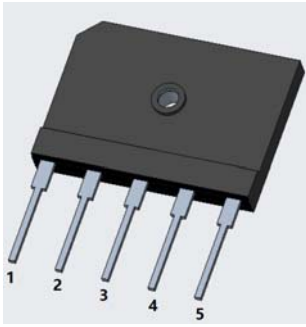


Three Phase Bridge Rectifiers



Features

- UL recognition, file #E230084
- Thin single in-line package
- Glass passivated chip junction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for Server、Frequency converter、Industrial power supply.

Mechanical Data

- **Package:** 3GBJ
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■Maximum Ratings (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | DG25NA60 | DG25NA80 | DG25NA100 | DG25NA120 |
|--|--|------------------|------------|----------|-----------|-----------|
| Device marking code | | | DG25NA60 | DG25NA80 | DG25NA100 | DG25NA120 |
| Maximum Repetitive Peak Reverse Voltage | VRRM | V | 600 | 800 | 1000 | 1200 |
| Maximum RMS Voltage | VRMS | V | 420 | 560 | 700 | 840 |
| Maximum DC blocking Voltage | VDC | V | 600 | 800 | 1000 | 1200 |
| Average rectified output current @60Hz sine wave, R-load | With heatsink T _c =125°C | I _O | A | 25.0 | | |
| | Without heatsink T _a =25°C | | | 4.0 | | |
| Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave, 1 cycle, T _j =25°C | IFSM | A | 400 | | | |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C | | | 800 | | | |
| Current squared time @1ms≤t≤8.3ms T _j =25°C, Rating of per diode | I ² t | A ² s | 664 | | | |
| Storage temperature | T _{stg} | °C | -55 ~ +150 | | | |
| Junction temperature | T _j | °C | -55 ~ +150 | | | |
| Dielectric strength @ Terminals to case, AC 1 minute | V _{dis} | KV | 2.5 | | | |
| Mounting torque @Recommend torque: 5kg·cm | Tor | kg·cm | 8 | | | |



DG25NA60 THRU DG25NA120

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | DG25NA60 | DG25NA80 | DG25NA100 | DG25NA120 |
|---|----------------|------|---|----------|----------|-----------|-----------|
| Maximum instantaneous forward voltage drop per diode | V _F | V | I _{FM} =12.5A | 1.05 | | | |
| Maximum DC reverse current at rated DC blocking voltage per diode | I _R | μA | T _j =25°C | 5 | | | |
| | | | T _j =125°C | 200 | | | |
| Typical junction capacitance | C _j | pF | Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C | 140 | | | |

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

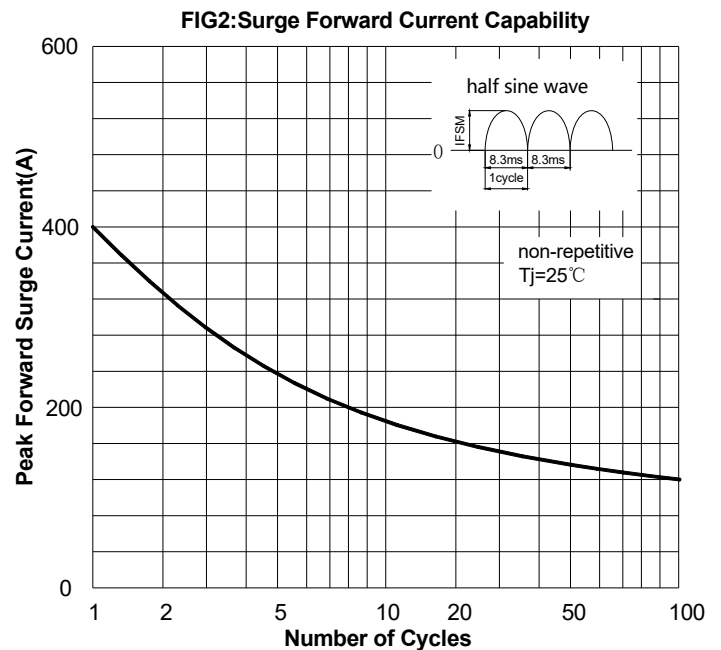
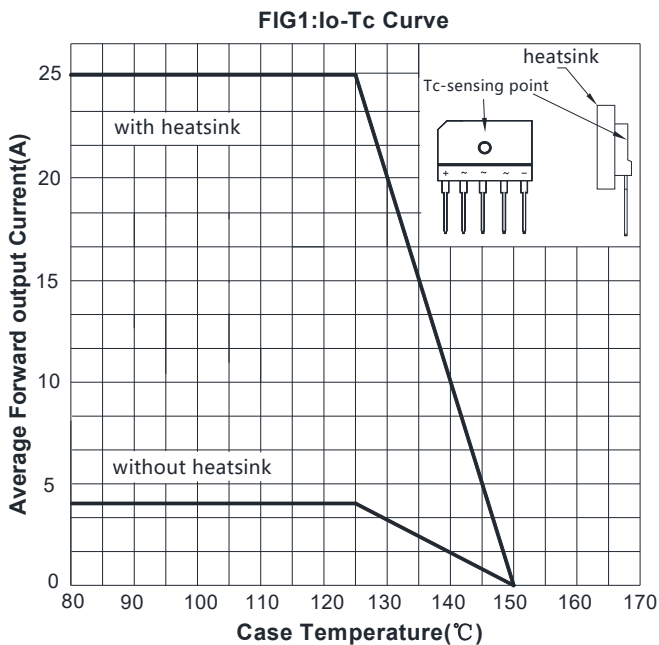
| PARAMETER | | SYMBOL | UNIT | DG25NA60 | DG25NA80 | DG25NA100 | DG25NA120 |
|----------------------------|--|-------------------|------|----------|----------|-----------|-----------|
| Typical Thermal Resistance | Between junction and ambient, Without heatsink | R _{θJ-A} | °C/W | 18 | | | |
| | Between junction and case, With heatsink | R _{θJ-C} | | 0.5 | | | |

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

■ Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|----------------------|--------------|----------------|----------------------|-------------------------|----------------------------|---------------|
| DG25NA60 ~ DG25NA120 | A1 | Approximate 10 | 100 | 100 | 1000 | BOX |
| DG25NA60 ~ DG25NA120 | B1 | Approximate 10 | 10 | / | 1000 | TUBE |

■ Characteristics (Typical)





DG25NA60 THRU DG25NA120

FIG3: Typical Forward Voltage

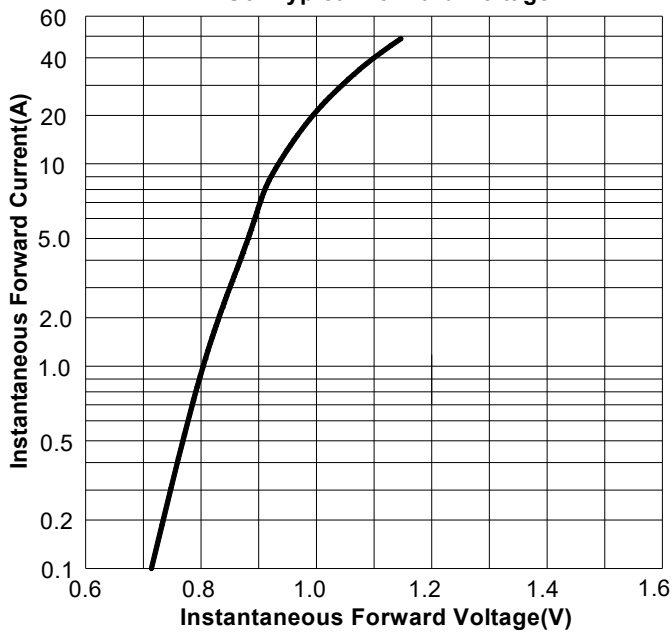
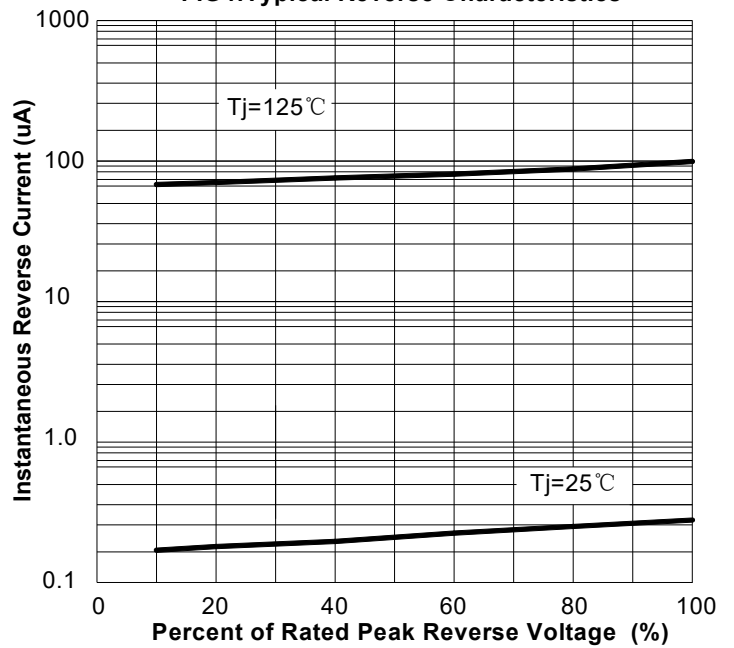
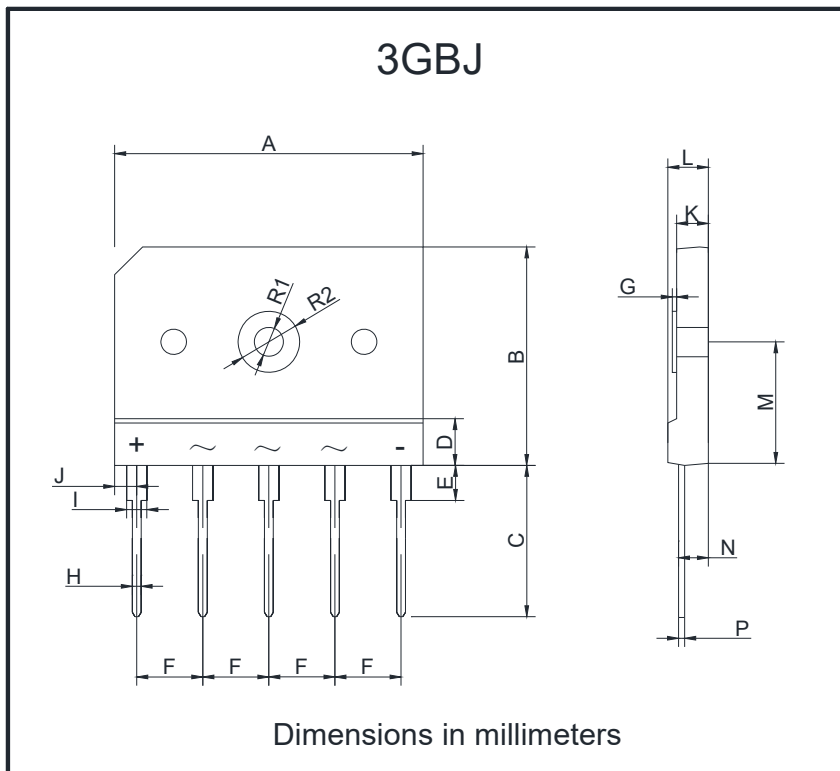


FIG4: Typical Reverse Characteristics



■ Outline Dimensions



| 3GBJ | | |
|------|------|------|
| Dim | Min | Max |
| A | 34.7 | 35.3 |
| B | 24.7 | 25.3 |
| C | 17.0 | 17.6 |
| D | 5.6 | 6.2 |
| E | 3.8 | 4.4 |
| F | 7.2 | 7.8 |
| G | 0.4 | 0.6 |
| H | 0.9 | 1.1 |
| I | 2.2 | 2.4 |
| J | 2.2 | 2.6 |
| K | 3.4 | 3.8 |
| L | 4.4 | 4.8 |
| M | 13.9 | 14.5 |
| N | 3.15 | 3.65 |
| P | 0.65 | 0.75 |
| R1 | 2.7 | 3.7 |
| R2 | 6.7 | 7.3 |



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