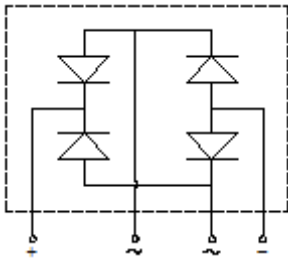
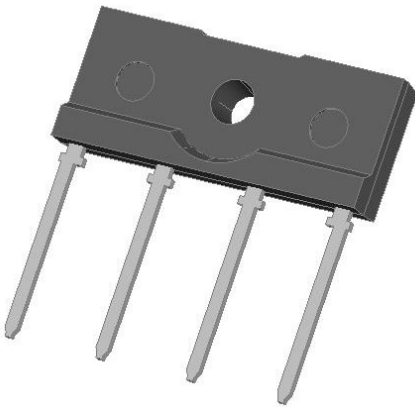


Bridge Rectifiers



Features

- UL recognition, file #E230084
- Thin single in-line package
- 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 switching power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- **Package:** JB
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 | D4JB05 | D4JB10 | D4JB20 | D4JB40 | D4JB60 | D4JB80 | D4JB100 |
|--|--|------------------|-----------|--------|--------|--------|--------|--------|---------|
| Device marking code | | | D4JB05 | D4JB10 | D4JB20 | D4JB40 | D4JB60 | D4JB80 | D4JB100 |
| Repetitive Peak Reverse Voltage | VRRM | V | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Average Rectified Output Current @60Hz sine wave, R-load, | With heatsink T _c =100°C | I _O | A | 4.0 | | | | | |
| | Without heatsink T _a =25°C | | | 2.3 | | | | | |
| Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T _j =25°C | IFSM | A | 135 | | | | | | |
| Current squared time @1ms≤t≤8.3ms T _j =25°C, rating of per diode | I ² t | A ² S | 76 | | | | | | |
| 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 | | | | | | |
| Mounting torque @recommend torque: 5kg · cm | Tor | kg · cm | 8 | | | | | | |

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

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | D4JB05 | D4JB10 | D4JB20 | D4JB40 | D4JB60 | D4JB80 | D4JB100 |
|---|------------------|------|-----------------------------------|--------|--------|--------|--------|--------|--------|---------|
| Maximum instantaneous forward voltage drop per diode | V _F | V | I _{FM} =2.0A | 1.00 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage per diode | I _{RRM} | μA | V _{RM} =V _{RRM} | 5 | | | | | | |



D4JB05 THRU D4JB100

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

| PARAMETER | | SYMBOL | UNIT | D4JB05 | D4JB10 | D4JB20 | D4JB40 | D4JB60 | D4JB80 | D4JB100 |
|--------------------|--|-------------------|------|--------|--------|--------|--------|--------|--------|---------|
| Thermal Resistance | Between junction and ambient, Without heatsink | R _{θJ-A} | °C/W | 35.0 | | | | | | |
| | Between junction and case, With heatsink | R _{θJ-C} | | 5.8 | | | | | | |

■ Ordering Information (Example)

| PREFERRED P/N | PACKAGE CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|----------------|--------------|-----------------|----------------------|-------------------------|----------------------------|---------------|
| D4JB05~D4JB100 | B1 | Approximate 2.4 | 20 | 1000 | 2000 | Tube |

■ Characteristics(Typical)

FIG1:I_o-T_c Curve

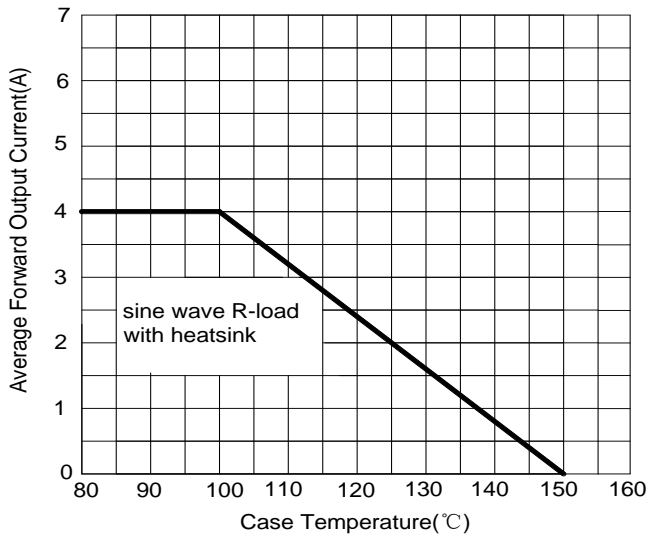


FIG2:Surge Forward Current Capability

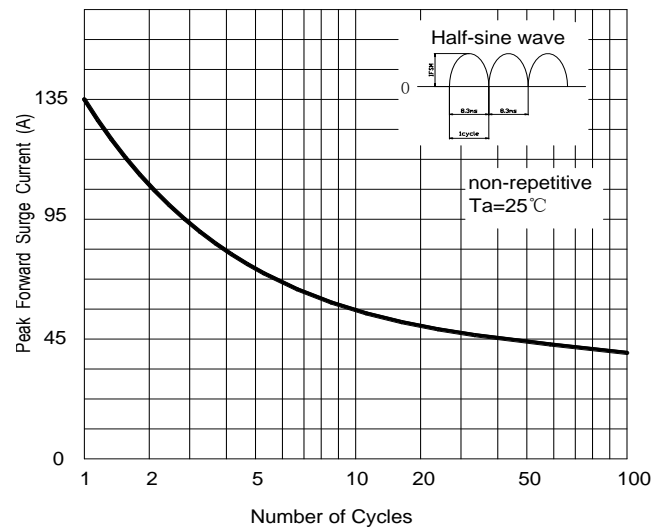


FIG3:Instantaneous Forward Voltage

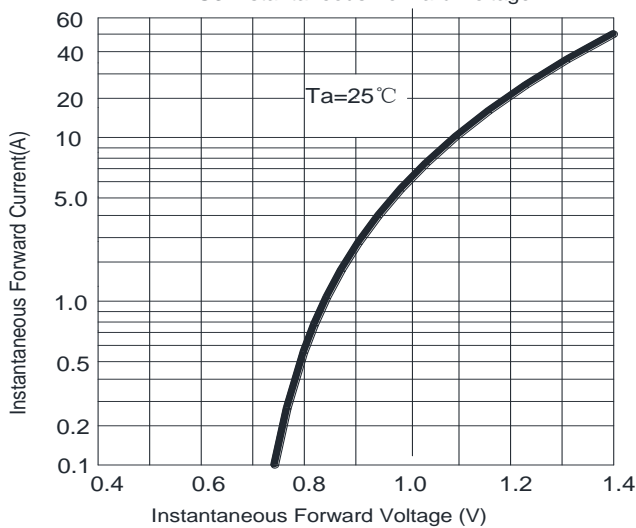
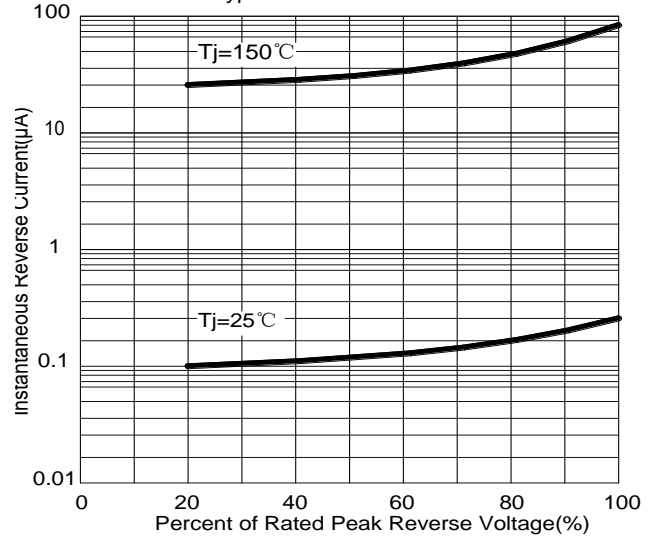


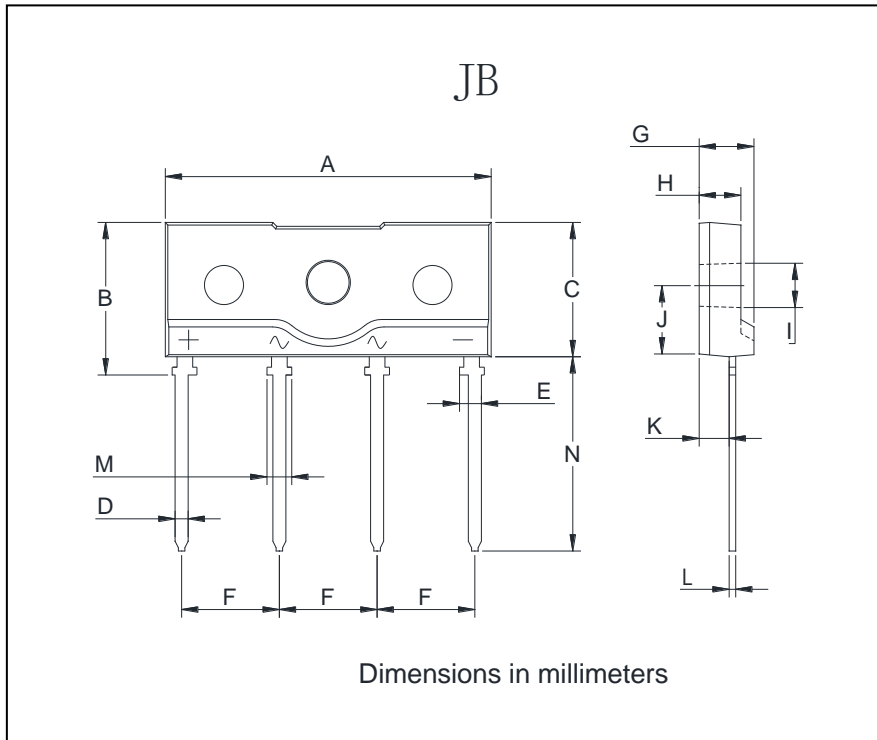
FIG4:Typical Reverse Characteristics





D4JB05 THRU D4JB100

■ Outline Dimensions



| JB | | |
|-----|-----------|------|
| Dim | Min | Max |
| A | 24.7 | 25.3 |
| B | 11.4 | 12.0 |
| C | 10.0 | 10.6 |
| D | 0.9 | 1.1 |
| E | 1.75(MAX) | |
| F | 7.3 | 7.7 |
| G | 3.9 | 4.5 |
| H | 2.9 | 3.9 |
| I | 3.1 | 3.4 |
| J | 5.4 | 6.0 |
| K | 2.0 | 2.6 |
| L | 0.4 | 0.6 |
| M | 2.1 | 2.3 |
| N | 14.6 | 15.2 |



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