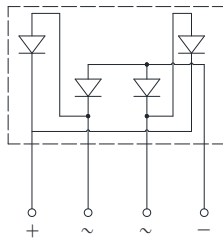
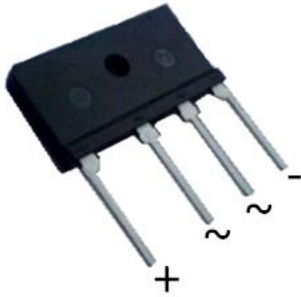


Bridge Rectifiers

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:** JA
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 | D25JA05 | D25JA10 | D25JA20 | D25JA40 | D25JA60 | D25JA80 | D25JA100 |
|--|--|------------------|-----------|---------|---------|---------|---------|---------|----------|
| Device marking code | | | D25JA05 | D25JA10 | D25JA20 | D25JA40 | D25JA60 | D25JA80 | D25JA100 |
| 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 =90°C | I _O | A | 25.0 | | | | | |
| | Without heatsink T _a =25°C | | | 3.5 | | | | | |
| Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T _j =25°C | IFSM | A | 300 | | | | | | |
| Current squared time @1ms≤t≤8.3ms T _j =25°C,rating of per diode | I ² t | A ² S | 370 | | | | | | |
| 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 | D25JA05 | D25JA10 | D25JA20 | D25JA40 | D25JA60 | D25JA80 | D25JA100 |
|---|------------------|------|-----------------|---------|---------|---------|---------|---------|---------|----------|
| Maximum instantaneous forward voltage drop per diode | V _F | V | IFM=12.5A | 1.00 | | | | | | |
| Maximum DC reverse current at rated DC blocking voltage per diode | I _{RRM} | μA | VRM=VRRM | 5 | | | | | | |



D25JA05 THRU D25JA100

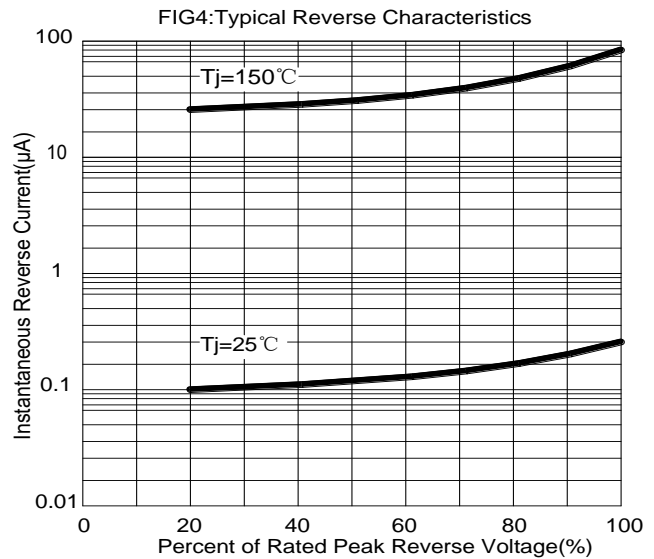
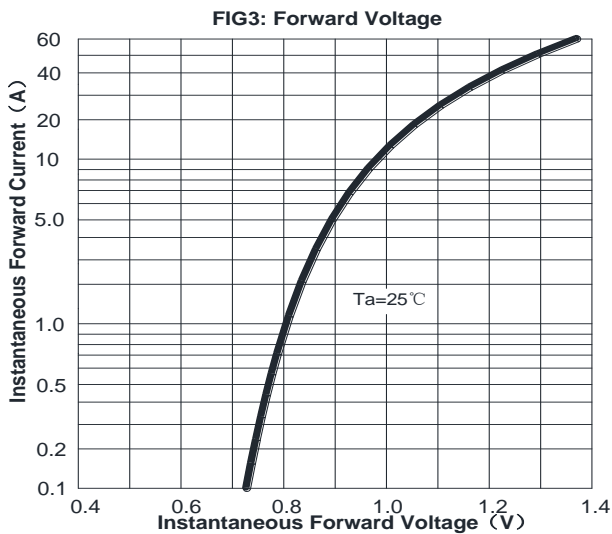
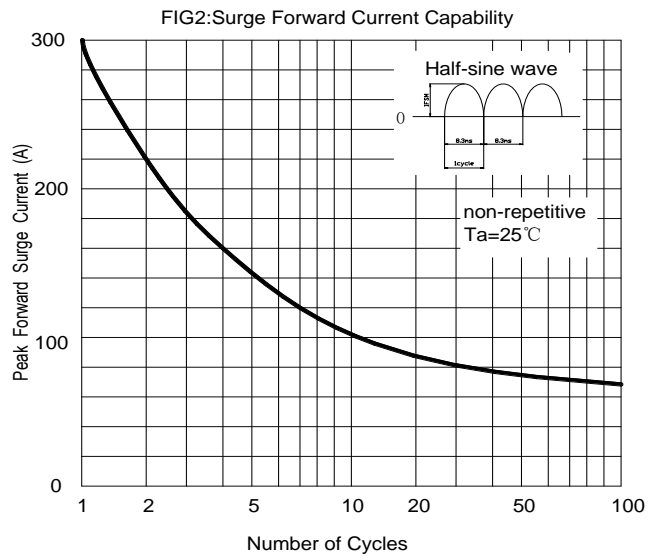
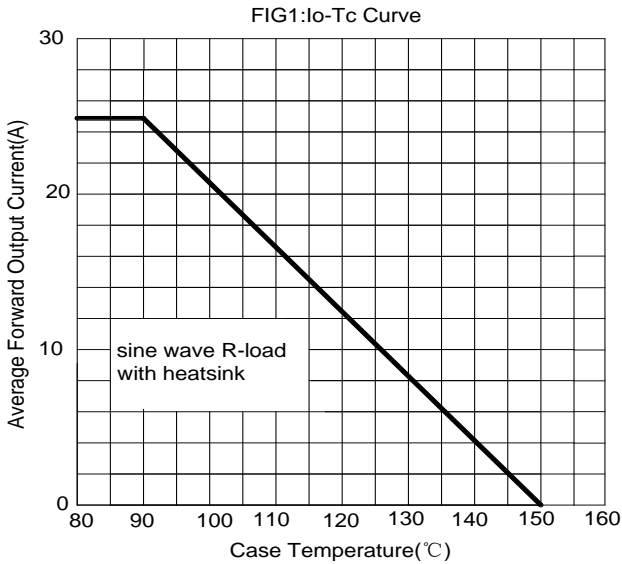
■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

| PARAMETER | | SYMBOL | UNIT | D25JA05 | D25JA10 | D25JA20 | D25JA40 | D25JA60 | D25JA80 | D25JA100 |
|--------------------|--|-------------------|------|---------|---------|---------|---------|---------|---------|----------|
| Thermal Resistance | Between junction and ambient, Without heatsink | R _{θJ-A} | °C/W | 22.0 | | | | | | |
| | Between junction and case, With heatsink | R _{θJ-C} | | 1.5 | | | | | | |

■ Ordering Information (Example)

| PREFERRED P/N | PACKAGE CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|------------------|--------------|-----------------|----------------------|-------------------------|----------------------------|---------------|
| D25JA05~D25JA100 | B1 | Approximate 4.3 | 15 | 750 | 1500 | Tube |

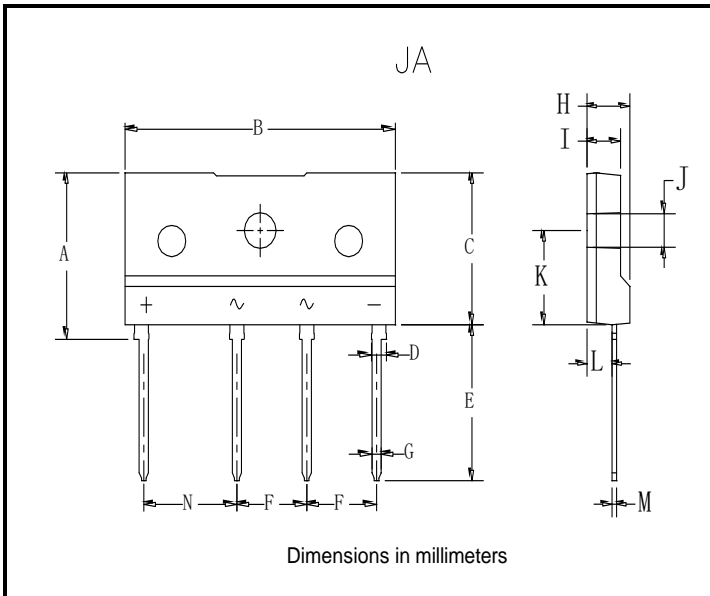
■ Characteristics(Typical)





D25JA05 THRU D25JA100

■ Outline Dimensions



| JA | | |
|-----|------|------|
| Dim | Min | Max |
| A | 15.6 | 16.2 |
| B | 28.7 | 29.3 |
| C | 14.2 | 14.8 |
| D | 1.5 | 1.7 |
| E | 14.6 | 15.2 |
| F | 7.3 | 7.7 |
| G | 0.9 | 1.1 |
| H | 4.3 | 4.9 |
| I | 3.3 | 3.9 |
| J | 3.1 | 3.4 |
| K | 8.7 | 9.3 |
| L | 2.5 | 2.9 |
| M | 0.4 | 0.6 |
| N | 9.8 | 10.2 |



D25JA05 THRU D25JA100

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