
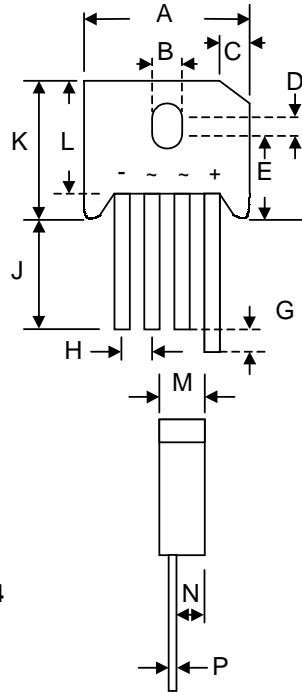


Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
-  Recognized File # E157705

Mechanical Data

- Case: KBU, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 8.0 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 10 cm·kg (8.8 in·lbs) Max.
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**



| KBU | | |
|-----------------------------|-------|-------|
| Dim | Min | Max |
| A | 22.70 | 23.70 |
| B | 3.60 | 4.10 |
| C | 4.20 | 4.70 |
| D | 1.70 | 2.20 |
| E | 10.30 | 11.30 |
| G | 4.50 | 5.60 |
| H | 4.60 | 5.60 |
| J | 25.40 | — |
| K | — | 19.30 |
| L | 16.80 | 17.80 |
| M | 6.60 | 7.10 |
| N | 4.10 | 4.60 |
| P | 1.20 | 1.30 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics @_{T_A}=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| Characteristic | Symbol | KBU 1000 | KBU 1001 | KBU 1002 | KBU 1004 | KBU 1006 | KBU 1008 | KBU 1010 | Unit |
|---|-----------------------------------|-------------|----------|----------|----------|----------|----------|----------|------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Working Peak Reverse Voltage | V _{RWM} | | | | | | | | |
| DC Blocking Voltage | V _R | | | | | | | | |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) @ _{T_C} = 100°C | I _O | 10 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 300 | | | | | | | A |
| Forward Voltage per leg @ _{I_F} = 5.0A | V _{FM} | 1.0 | | | | | | | V |
| Peak Reverse Current @ _{T_A} = 25°C | I _R | 10 | | | | | | | μA |
| At Rated DC Blocking Voltage @ _{T_A} = 125°C | | 1.0 | | | | | | | |
| Typical Thermal Resistance per leg (Note 2) | R _{θJA} | 16 | | | | | | | °C/W |
| Typical Thermal Resistance per leg (Note 1) | R _{θJC} | 2.8 | | | | | | | °C/W |
| Operating and Storage Temperature Range | T _i , T _{STG} | -65 to +150 | | | | | | | °C |

Note: 1. Mounted on 85 x 85 x 1.5mm Al. plate.
2. Mounted on PCB at 9.5mm lead length with 12mm² copper pad.

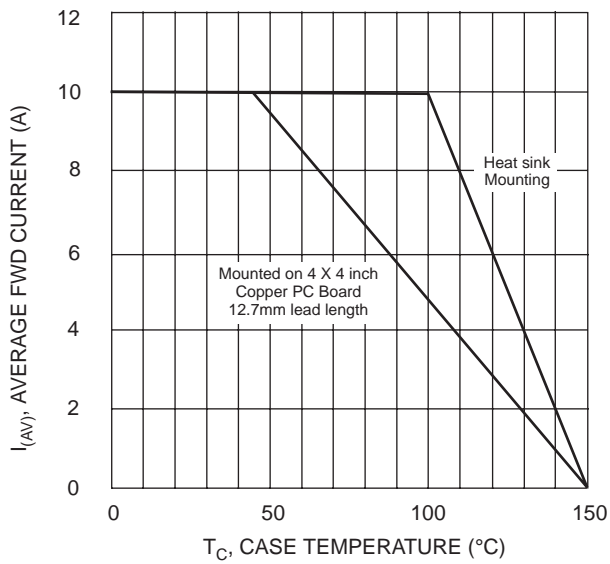


Fig. 1 Forward Current Derating Curve

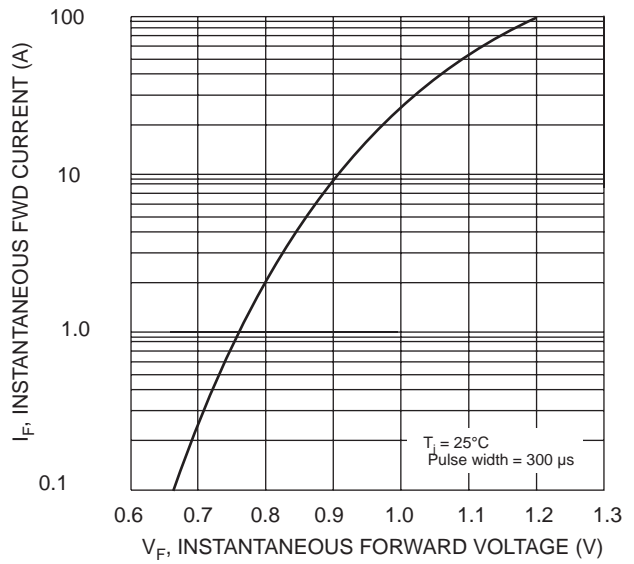


Fig. 2 Typical Forward Characteristics, per element

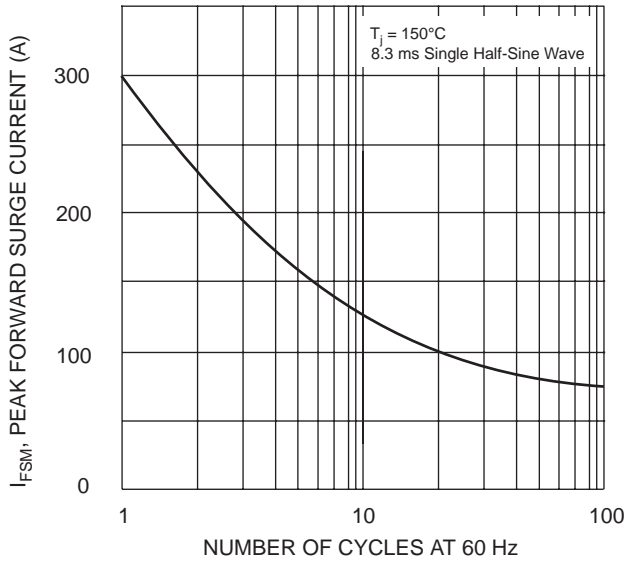


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

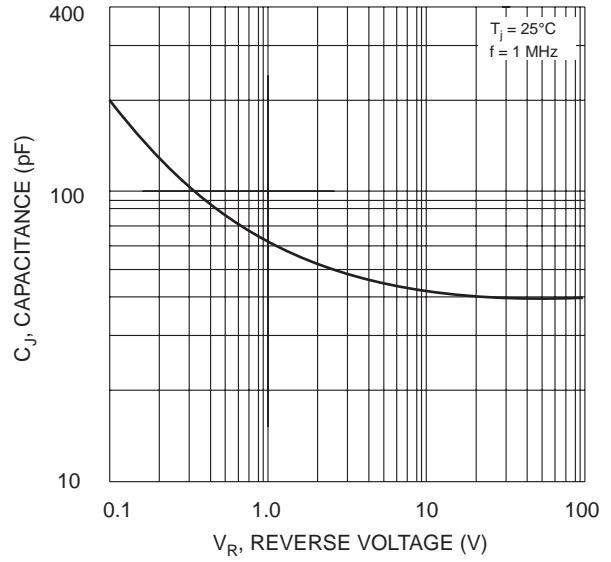


Fig. 4 Typical Junction Capacitance per element

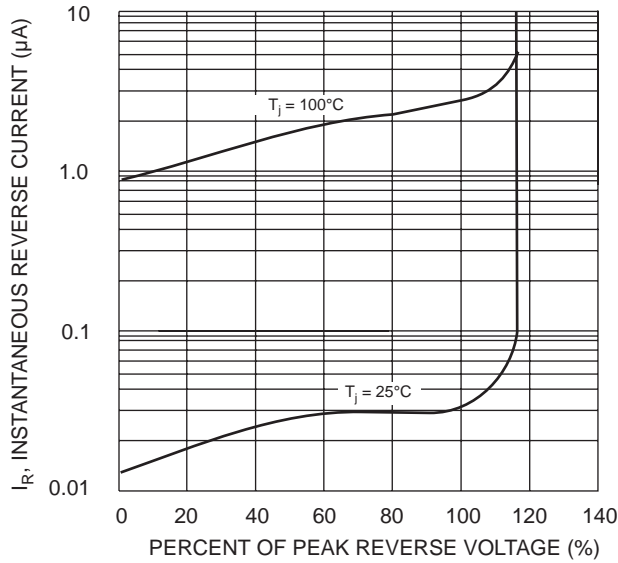
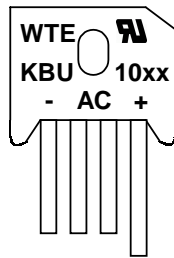


Fig. 5 Typical Reverse Characteristics

MARKING INFORMATION



WTE = Manufacturer's Logo
KBU10xx = Device Number
xx = 00, 01, 02, 04, 06, 08 or 10
Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

| Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|----------------------------------|-------------------|-------------------------------|-------------------|------------------------------|
| 268 x 227 x 51 | 400 | 463 x 283 x 185 | 2,400 | 20.5 |

Note: 1. Paper box, white or brown color.

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| KBU1000 | SIL Bridge | 400 Units/Box |
| KBU1001 | SIL Bridge | 400 Units/Box |
| KBU1002 | SIL Bridge | 400 Units/Box |
| KBU1004 | SIL Bridge | 400 Units/Box |
| KBU1006 | SIL Bridge | 400 Units/Box |
| KBU1008 | SIL Bridge | 400 Units/Box |
| KBU1010 | SIL Bridge | 400 Units/Box |

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBU1000-LF.**

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