
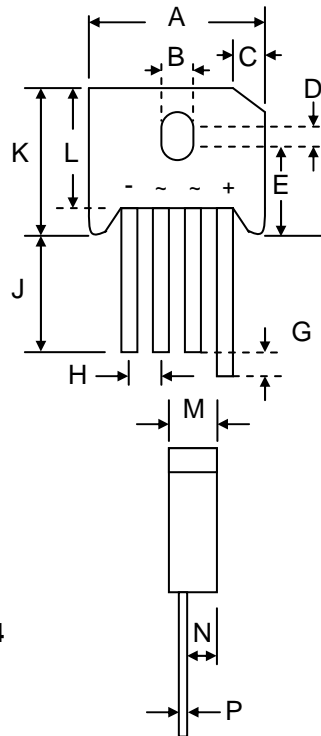


Features

- Glass Passivated Die Construction
- 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: 0.8 N.m Max.
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**



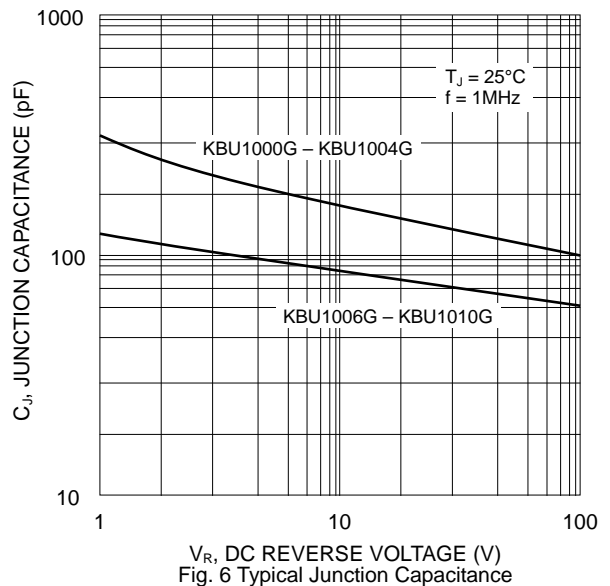
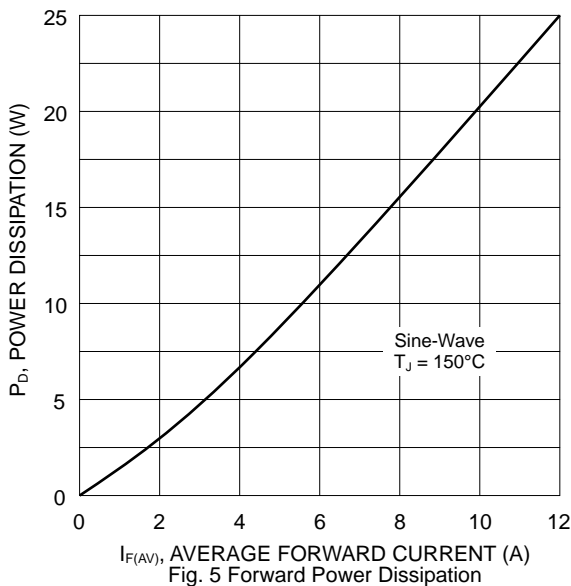
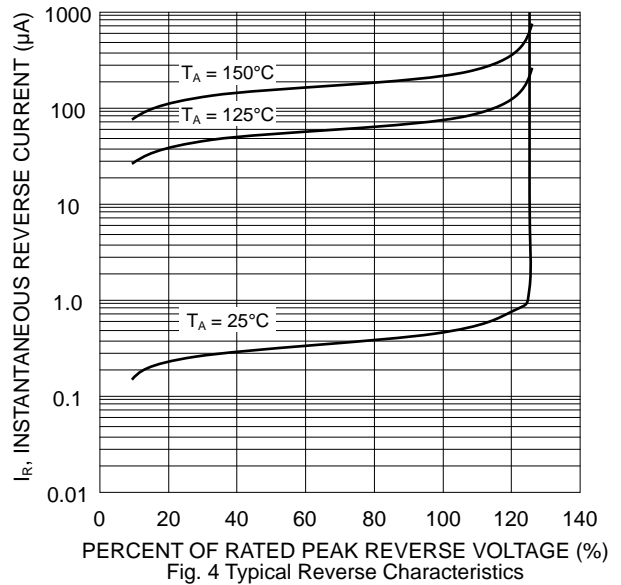
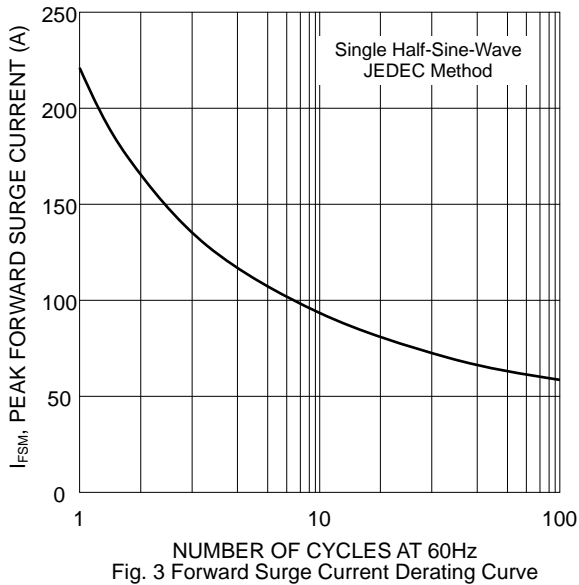
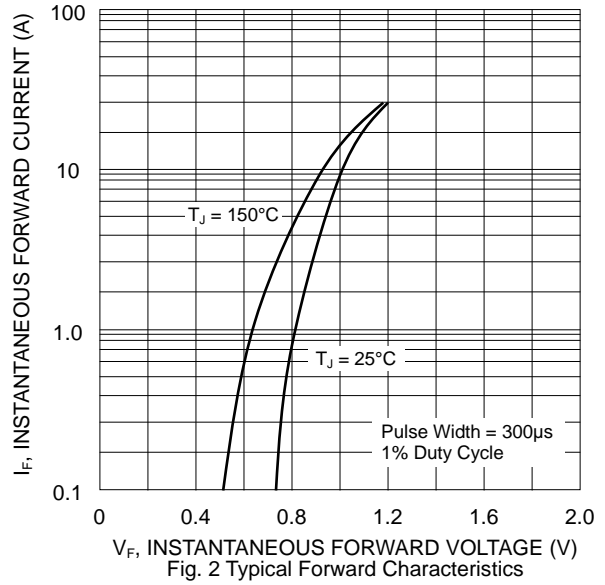
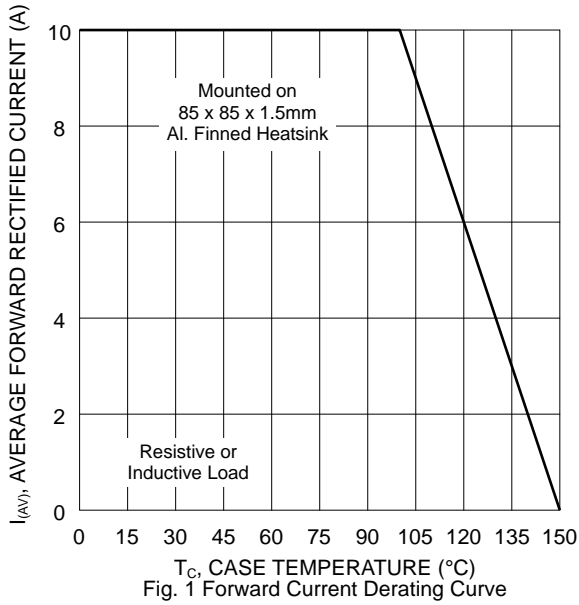
| KBU | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 22.70 | 23.70 |
| B | 3.60 | 4.10 |
| C | 4.20 | 4.70 |
| D | 1.70 | 2.20 |
| E | 10.30 | 11.30 |
| G | 4.50 | 5.60 |
| H | 4.60 | 5.60 |
| J | 25.40 | — |
| K | — | 19.80 |
| L | 16.80 | 17.80 |
| M | 6.60 | 7.10 |
| N | 4.10 | 4.60 |
| P | 1.20 | 1.30 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

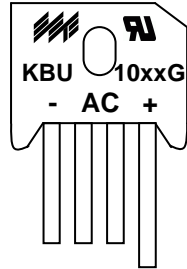
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | Symbol | KBU 1000G | KBU 1001G | KBU 1002G | KBU 1004G | KBU 1006G | KBU 1008G | KBU 1010G | Unit |
|---|---------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @ $T_C = 100^\circ\text{C}$ (Note 1) | I_O | 10 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | I_{FSM} | 220 | | | | | | | A |
| Forward Voltage per leg @ $I_F = 5.0\text{A}$ | V_{FM} | 1.0 | | | | | | | V |
| Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$ | I_{RM} | 10 1.0 | | | | | | | μA mA |
| I^2t Rating for Fusing ($t < 8.3\text{ms}$) | I^2t | 200 | | | | | | | A^2s |
| Typical Junction Capacitance (Note 2) | C_J | 211 | | | | | 94 | | pF |
| Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1) | R_{JA} R_{JC} | 16 2.8 | | | | | | | $^\circ\text{C/W}$ |
| RMS Isolation Voltage Terminals to Case, $t = 1\text{min}$ | V_{ISO} | 1500 | | | | | | | V |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

- Note: 1. Mounted on 85 x 85 x 1.5mm thick Al. heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.



MARKING INFORMATION



KBU10xxG = 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 |
|-------------|--------------|-------------------|
| KBU1000G | SIL Bridge | 400 Units/Box |
| KBU1001G | SIL Bridge | 400 Units/Box |
| KBU1002G | SIL Bridge | 400 Units/Box |
| KBU1004G | SIL Bridge | 400 Units/Box |
| KBU1006G | SIL Bridge | 400 Units/Box |
| KBU1008G | SIL Bridge | 400 Units/Box |
| KBU1010G | 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 RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBU1000G-LF.**

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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