

# KBU1000G – KBU1010G

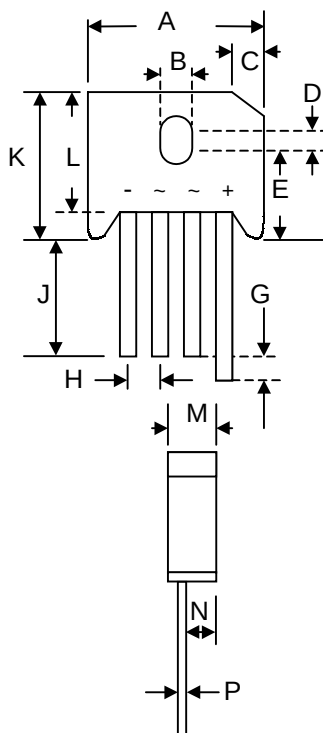
## 10A GLASS PASSIVATED BRIDGE RECTIFIER

### Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

### Mechanical Data

- Case: 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
- Marking: Type Number

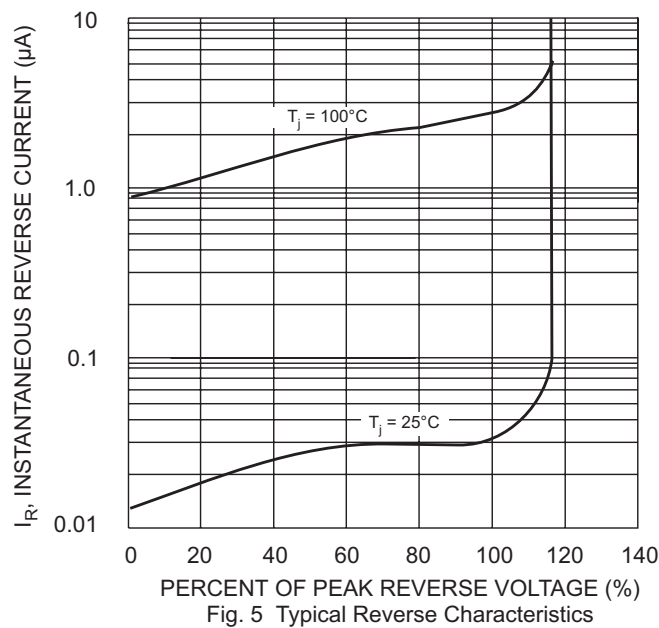
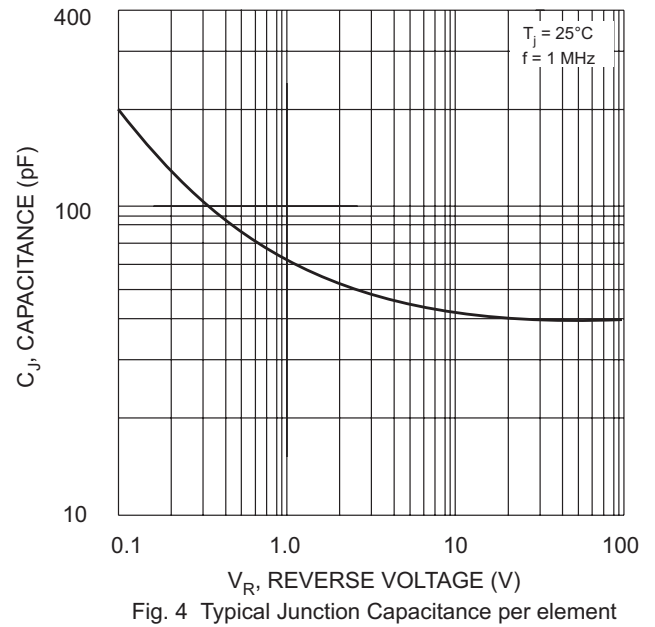
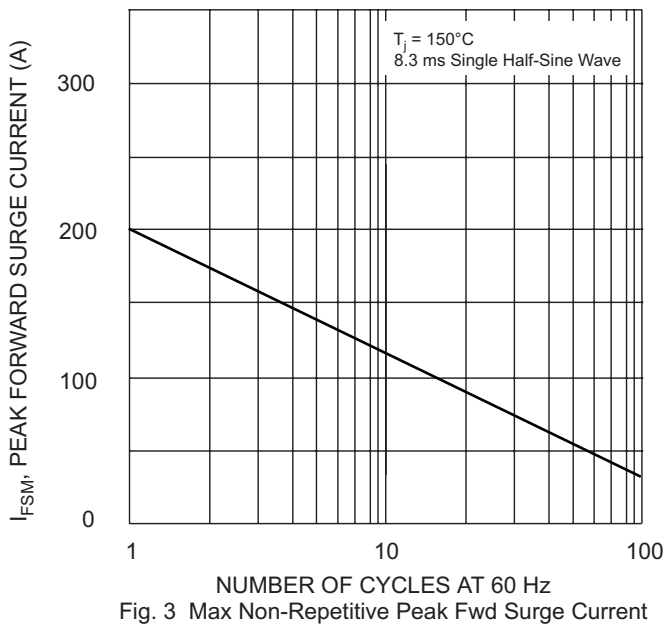
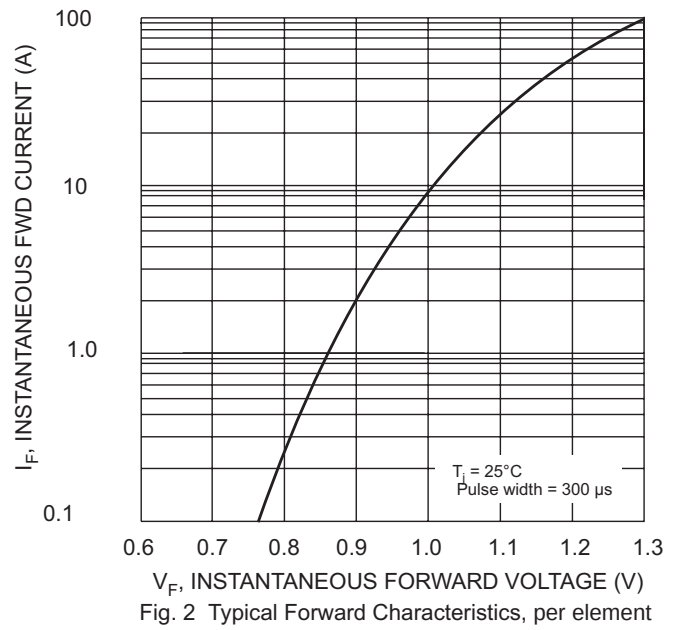
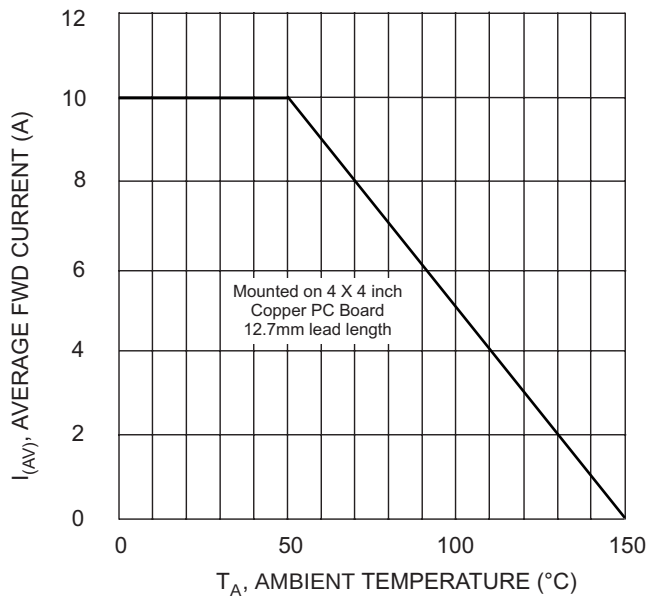


| KBU                  |       |       |
|----------------------|-------|-------|
| Dim                  | Min   | Max   |
| A                    | 22.70 | 23.70 |
| B                    | 3.80  | 4.10  |
| C                    | 4.20  | 4.70  |
| D                    | 1.70  | 2.20  |
| E                    | 10.30 | 11.30 |
| G                    | 4.50  | 6.80  |
| H                    | 4.60  | 5.60  |
| J                    | 25.40 | —     |
| K                    | —     | 19.30 |
| L                    | 16.80 | 17.80 |
| M                    | 6.60  | 7.10  |
| N                    | 4.70  | 5.20  |
| P                    | 1.20  | 1.30  |
| All Dimensions in mm |       |       |

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°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<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                             | V <sub>RRM</sub><br>V <sub>RWM</sub><br>V <sub>R</sub> | 50          | 100       | 200       | 400       | 600       | 800       | 1000      | V    |
| RMS Reverse Voltage                                                                                                | V <sub>R(RMS)</sub>                                    | 35          | 70        | 140       | 280       | 420       | 560       | 700       | V    |
| Average Rectified Output Current @T <sub>A</sub> = 50°C                                                            | I <sub>O</sub>                                         | 10          |           |           |           |           |           |           | A    |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I <sub>FSM</sub>                                       | 200         |           |           |           |           |           |           | A    |
| Forward Voltage (per element) @I <sub>F</sub> = 5.0A                                                               | V <sub>FM</sub>                                        | 1.1         |           |           |           |           |           |           | V    |
| Peak Reverse Current @T <sub>A</sub> = 25°C<br>At Rated DC Blocking Voltage @T <sub>A</sub> = 125°C                | I <sub>R</sub>                                         | 5.0<br>500  |           |           |           |           |           |           | μA   |
| Operating and Storage Temperature Range                                                                            | T <sub>J</sub> , T <sub>STG</sub>                      | -55 to +150 |           |           |           |           |           |           | °C   |



## 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     |

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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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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