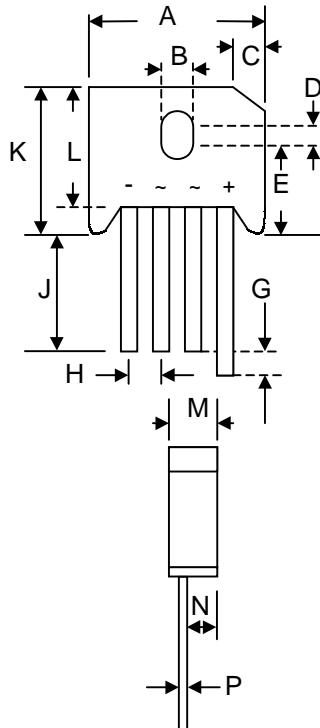


Features

- 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 $\text{@T}_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| Characteristic | Symbol | KBU 600G | KBU 601G | KBU 602G | KBU 604G | KBU 606G | KBU 608G | KBU 610G | Unit |
|---|-----------------------------------|----------|----------|----------|-------------|----------|----------|----------|------------------|
| Peak Repetitive Reverse Voltage | V _{RRM} | | | | | | | | |
| Working Peak Reverse Voltage | V _{RWM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| DC Blocking Voltage | V _R | | | | | | | | |
| RMS Reverse Voltage | V _R (RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current $\text{@T}_A = 65^\circ\text{C}$ | I _o | | | | 6.0 | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | | | | 175 | | | | A |
| Forward Voltage (per element) $\text{@I}_F = 3.0\text{A}$ | V _{FM} | | | | 1.1 | | | | V |
| Peak Reverse Current $\text{@T}_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage $\text{@T}_A = 125^\circ\text{C}$ | I _R | | | | 5.0 | 500 | | | μA |
| Operating and Storage Temperature Range | T _j , T _{STG} | | | | -55 to +150 | | | | $^\circ\text{C}$ |

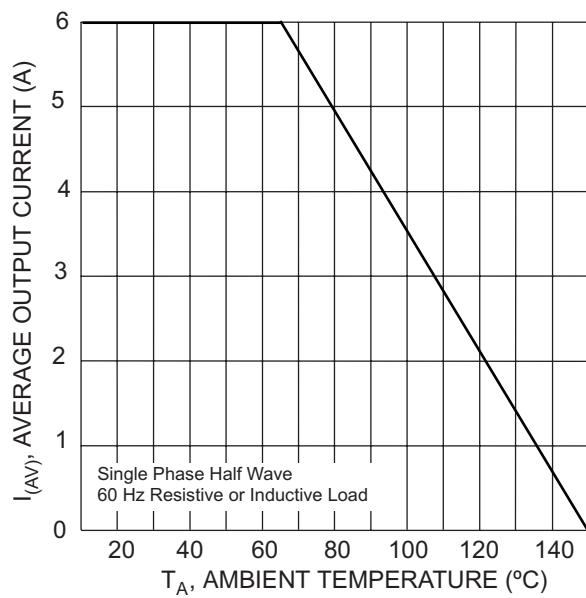


Fig. 1 Forward Current Derating Curve

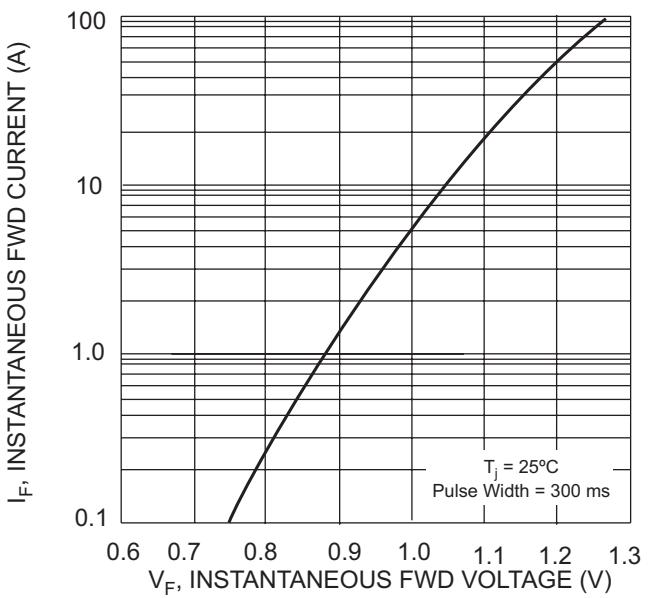


Fig. 2 Typical Forward Characteristics, per element

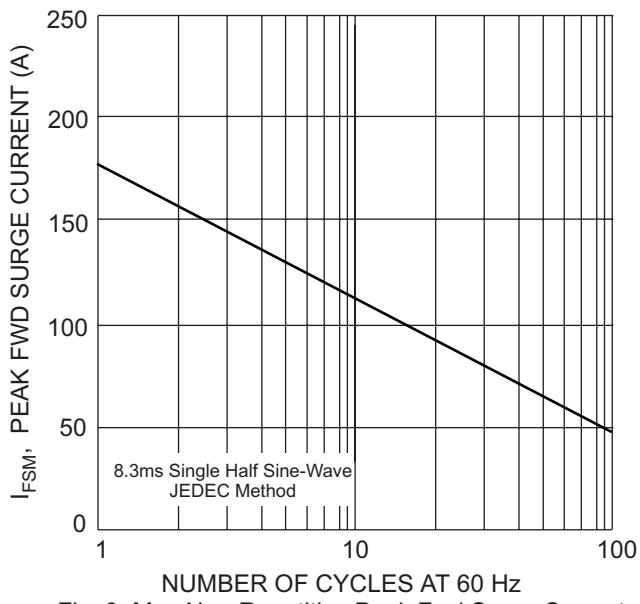


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

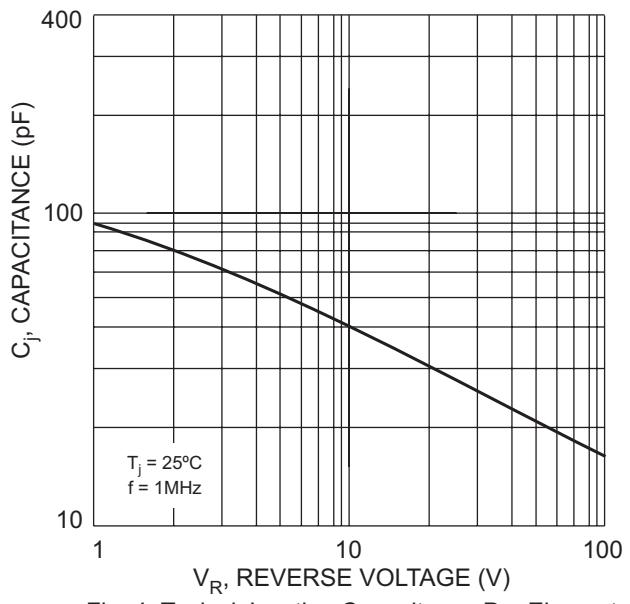


Fig. 4 Typical Junction Capacitance Per Element

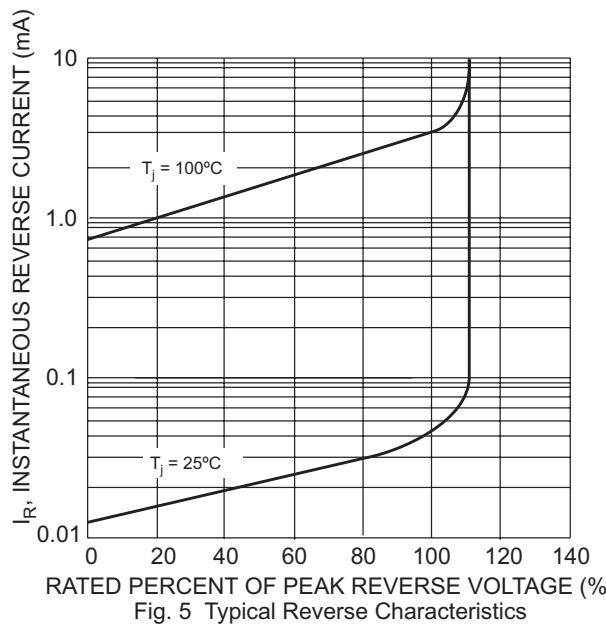


Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|-------------|--------------|-------------------|
| KBU600G | SIL Bridge | 400 Units/Box |
| KBU601G | SIL Bridge | 400 Units/Box |
| KBU602G | SIL Bridge | 400 Units/Box |
| KBU604G | SIL Bridge | 400 Units/Box |
| KBU606G | SIL Bridge | 400 Units/Box |
| KBU608G | SIL Bridge | 400 Units/Box |
| KBU610G | 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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