

KBU4A THRU KBU4M

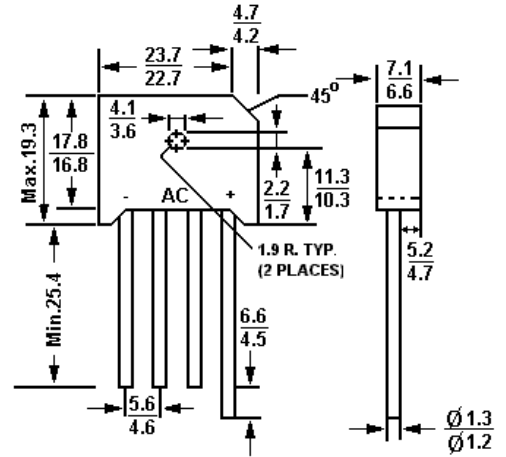
SINGLE – PHASE BRIDGE RECTIFIERS

Reverse Voltage – 50 to 1000 Volts

Forward Current – 4.0 Amperes

Features

- Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0.
- Surge overload rating:200 amperes peak.
- Mounting Position: Any

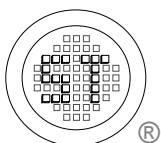


Dimensions in mm

Absolute Maximum Ratings and Characteristics

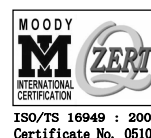
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz, For capacitive load, derate current by 20%.

| | Symbols | KBU 4A | KBU 4B | KBU 4D | KBU 4G | KBU 4J | KBU 4K | KBU 4M | Units |
|--|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS bridge input voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified output current at $T_C = 100^\circ\text{C}$, $T_A = 65^\circ\text{C}/40^\circ\text{C}/45^\circ\text{C}$ | $I_{(AV)}$ | 4 | | | | | | | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (MIL-STD-750 method 4066) | I_{FSM} | 200 | | | | | | | A |
| Maximum instantaneous forward voltage drop per element at 3.0A/3.0A/8.0A | V_F | 1 | | | | | | | V |
| Maximum DC reverse leakage at rated $T_A = 25^\circ\text{C}$ DC blocking voltage per element $T_C = 100^\circ\text{C}$ | I_R | 10 | | | | | | | μA |
| | | 100 | | | | | | | mA |
| Operating and storage temperature range | T_J, T_S | -65 to +150 | | | | | | | $^\circ\text{C}$ |



SEMTECH ELECTRONICS LTD.

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