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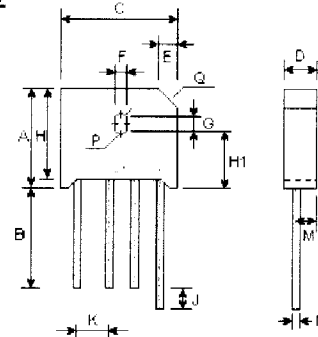
## KBU4,6,8/RS6 SERIES

**SINGLE-PHASE SILICON BRIDGE**  
**Reverse Voltage - 50 to 1000 Volts**  
**Forward Current - 4.0/6.0/8.0 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
- Mounting Torque: 5 In. lb. max.

**RS-6**



| DIM | inches                         |       | mm   |      | Note |
|-----|--------------------------------|-------|------|------|------|
|     | Min.                           | Max.  | Min. | Max. |      |
| A   | -                              | 0.760 | -    | 19.3 |      |
| B   | 1.0                            | -     | 25.4 | -    |      |
| C   | 0.895                          | 0.935 | 22.7 | 23.7 |      |
| D   | 0.260                          | 0.280 | 6.6  | 7.1  |      |
| E   | 0.165                          | 0.185 | 4.2  | 4.7  |      |
| F   | 0.140                          | 0.160 | 3.6  | 4.1  |      |
| G   | 0.065                          | 0.085 | 1.7  | 2.2  |      |
| H   | 0.660                          | 0.700 | 16.8 | 17.8 |      |
| H1  | 0.405                          | 0.455 | 10.3 | 11.3 |      |
| J   | 0.180                          | 0.260 | 4.5  | 6.6  |      |
| K   | 0.180                          | 0.220 | 4.6  | 5.6  |      |
| M   | 0.185                          | 0.205 | 4.7  | 5.2  |      |
| N   | 0.048                          | 0.052 | 1.2  | 1.3  | φ    |
| P   | 0.075 (1.9) R. Typ. (2 Places) |       |      |      |      |
| Q   | 45°                            |       |      |      |      |

### Maximum Ratings and Electrical Characteristics

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

|                                                                                                                                            | Symbols        | KBU4A<br>KBU6A<br>KBU8A<br>RS601 | KBU4B<br>KBU6B<br>KBU8B<br>RS602 | KBU4D<br>KBU6D<br>KBU8D<br>RS603 | KBU4G<br>KBU6G<br>KBU8G<br>RS604 | KBU4J<br>KBU6J<br>KBU8J<br>RS605 | KBU4K<br>KBU6K<br>KBU8K<br>RS606 | KBU4M<br>KBU6M<br>KBU8M<br>RS607 | Units    |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------|
| Maximum repetitive peak reverse voltage                                                                                                    | $V_{RRM}$      | 50                               | 100                              | 200                              | 400                              | 600                              | 800                              | 1000                             | Volts    |
| Maximum RMS bridge input voltage                                                                                                           | $V_{RMS}$      | 35                               | 70                               | 140                              | 280                              | 420                              | 560                              | 700                              | Volts    |
| Maximum DC blocking voltage                                                                                                                | $V_{DC}$       | 50                               | 100                              | 200                              | 400                              | 600                              | 800                              | 1000                             | Volts    |
| Maximum average forward rectified output current at<br>$T_C=100^\circ\text{C}$<br>$T_A=65^\circ\text{C}/40^\circ\text{C}/45^\circ\text{C}$ | $I_{AV}$       |                                  | 4.0<br>4.0                       |                                  | 6.0<br>6.0                       |                                  | 8.0<br>6.0                       |                                  | Amps     |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (MIL-STD-750 method 4066)                               | $I_{FSM}$      |                                  | 200.0                            |                                  | 250.0                            |                                  | 300.0                            |                                  | Amps     |
| Maximum instantaneous forward Voltage drop per element at 3.0A/3.0A/8.0A                                                                   | $V_F$          |                                  | 1.0                              |                                  | 1.0                              |                                  | 1.0                              |                                  | Volt     |
| Maximum DC reverse leakage at rated<br>DC blocking voltage per element<br>$T_C=25^\circ\text{C}$<br>$T_C=100^\circ\text{C}$                | $I_R$          |                                  | 10.0<br>100.0                    |                                  | 10.0<br>200.0                    |                                  | 10.0<br>300.0                    |                                  | uA<br>mA |
| Operating and storage temperature range                                                                                                    | $T_J, T_{STG}$ | -65 to +150                      |                                  |                                  |                                  |                                  |                                  |                                  | °C       |

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Quality Semi-Conductors

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