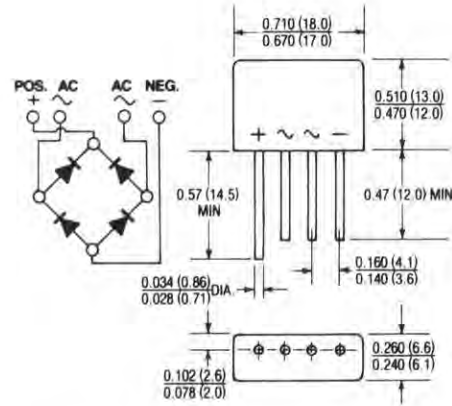




**2KBP-G**



Dimensions in inches and (millimeters)

### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 65 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

### Mechanical Data

- Case: Molded plastic
- Leads: Tin plated copper
- Leads solderable per MIL-STD-202, Method 208
- Weight: 0.05 ounce, 1.52 grams

### Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

|                                                                                                    |                | 2KBP<br>005G | 2KBP<br>01G | 2KBP<br>02G | 2KBP<br>04G | 2KBP<br>06G | 2KBP<br>08G | 2KBP<br>10G | Units                 |
|----------------------------------------------------------------------------------------------------|----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|
| Maximum Recurrent Peak Reverse Voltage                                                             | $V_{RRM}$      | 50           | 100         | 200         | 400         | 600         | 800         | 1000        | V                     |
| Maximum RMS Voltage                                                                                | $V_{RMS}$      | 35           | 70          | 140         | 280         | 420         | 560         | 700         | V                     |
| Maximum DC Blocking Voltage                                                                        | $V_{DC}$       | 60           | 100         | 200         | 400         | 600         | 800         | 1000        | V                     |
| Maximum Average Forward Output Current @ $T_A = 65^\circ\text{C}$                                  | $I_{(AV)}$     | 2.0          |             |             |             |             |             |             | A                     |
| Peak Forward Surge Current<br>8.3 ms Single Half-Sine-Wave<br>Superimposed On Rated Load           | $I_{FSM}$      | 65           |             |             |             |             |             |             | A                     |
| Maximum DC Forward Voltage Drop per Element<br>At 1.0A DC                                          | $V_F$          | 1.1          |             |             |             |             |             |             | V                     |
| Maximum DC Reverse Current At Rated<br>DC Blocking Voltage per Element @ $T_A = 125^\circ\text{C}$ | $I_R$          | 5<br>500     |             |             |             |             |             |             | $\mu\text{A}$         |
| $I^2 t$ Rating for Fusing ( $t < 8.3\text{ms}$ )                                                   | $I^2 t$        | 17.5         |             |             |             |             |             |             | $\text{A}^2 \text{S}$ |
| Typical Junction Capacitance Per Element *                                                         | $C_J$          | 25           |             |             |             |             |             |             | pF                    |
| Typical Thermal Resistance **                                                                      | $R_{(TH J-C)}$ | 14           |             |             |             |             |             |             | $^\circ\text{C/W}$    |
| Operating Temperature Range                                                                        | $T_J$          | -55 to +150  |             |             |             |             |             |             | $^\circ\text{C}$      |
| Storage Temperature Range                                                                          | $T_{STG}$      | -55 to +150  |             |             |             |             |             |             | $^\circ\text{C}$      |

Notes: \*Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

\*\* Thermal resistance junction to case