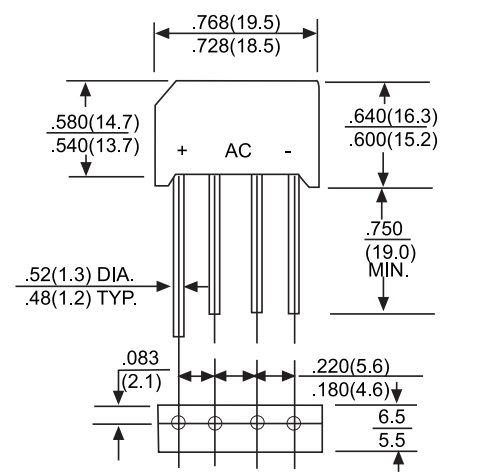


# KBL4 SERIES

|   |   |
|---|---|
| <b>SINGLE PHASE 4.0 AMPS.<br/>SILICON BRIDGE<br/>RECTIFIERS</b>   | <b>Voltage Range<br/>50 to 1000 Volts<br/>Current 4.0 Amperes</b>                   |
| <b>FEATURES</b> <ul style="list-style-type: none"> <li>• Surge overload rating - 200 amperes peak</li> <li>• Ideal for printed circuit board</li> <li>• Plastic material has Underwriters Laboratory Flammability Classification 94V-0</li> <li>• Mounting Position: Any</li> </ul> |  |

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 50Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

| Type Number   |   | KBL4005 | KBL401 | KBL402 | KBL404 | KBL406      | KBL408 | KBL410 | UNITS |    |
|---|---|---------|--------|--------|--------|-------------|--------|--------|-------|----|
| Maximum Repetitive Peak Reverse Voltage   | V <sub>RRM</sub>  | 50      | 100    | 200    | 400    | 600         | 800    | 1000   | V     |    |
| Maximum RMS Bridge Voltage  | V <sub>RMS</sub>  | 35      | 70     | 140    | 280    | 420         | 560    | 700    | V     |    |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>   | 50      | 100    | 200    | 400    | 600         | 800    | 1000   | V     |    |
| Maximum Average Forward Current @ T <sub>A</sub> =50°C T <sub>A</sub> (Note 1)      | KBL4<br>KBL6<br>I <sub>F(AV)</sub>                              |         |        |        |        | 4.0<br>6.0  |        |        |       | A  |
| Peak Forward Surge Current, 8.3ms single half sine-wave super imposed on rated load | KBL4<br>KBL6<br>I <sub>FSM</sub>                                |         |        |        |        | 150<br>200  |        |        |       | A  |
| Maximum DC Reverse Voltage Drop Per Leg   | KBL4@4.0A<br>KBL6@6.0A<br>V <sub>F</sub>                        |         |        |        |        | 1.0<br>1.05 |        |        |       | V  |
| Maximum Reverse Current at Rated DC Blocking Voltage                                | T <sub>A</sub> =25°C<br>T <sub>A</sub> =100°C<br>I <sub>R</sub> |         |        |        |        | 10.0<br>500 |        |        |       | µA |
| Operating and Storage Temperature Range   | T <sub>J</sub> , T <sub>STG</sub>                               |         |        |        |        | -55 to +150 |        |        | °C    |    |

NOTES: 1. Mounting conditions, 0.5" lead length maximum.

## RATING AND CHARACTERISTIC CURVES KBL4 SERIES

