KBL4/RS4L/KBL6 SERIES

SINGLE PHASE 4.0/6.0 AMPS.
SILICON BRIDGE
RECTIFIERS

**FEATURES**
- Surge overload rating - 200 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory
  Flammability Classification 94V-0
- Mounting Position: Any

**Voltage Range**
- 50 to 1000 Volts
- Current 4.0/6.0 Amperes

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%

<table>
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<th>Type Number</th>
<th>KBL6005</th>
<th>KBL601</th>
<th>KBL602</th>
<th>KBL604</th>
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<td>KBL408</td>
<td>KBL410</td>
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- **Maximum Repetitive Peak Reverse Voltage** $V_{RRM}$: 50, 100, 200, 400, 600, 800, 1000 V
- **Maximum RMS Bridge 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 Current @ $T_a=50^\circ C$ $T_x$(Note 1)** $I_{F(AV)}$: 4.0 A, 6.0 A
- **Peak Forward Surge Current, 8.3ms single half sine-wave super imposed on rated load** $I_{FSM}$: 150 A, 200 A
- **Maximum DC Reverse Voltage Drop Per Leg** $V_F$: 1.0 V, 1.05 V
- **Maximum Reverse Current at Rated DC Blocking Voltage** $I_R$: 10.0 μA, 500 μA
- **Operating and Storage Temperature Range** $T_J$, $T_{STG}$: -55 to +150 °C

**NOTES:**
1. Mounting conditions, 0.5" lead length maximum.
RATING AND CHARACTERISTIC CURVES
KBL4/RS4L/KBL6 SERIES

FIG.1 - MAXIMUM FORWARD SURGE CURRENT

FIG.2 - DERATING CURVE OUTPUT RECTIFIED CURRENT

FIG.3 - TYPICAL FORWARD CHARACTERISTICS

FIG.4 - TYPICAL REVERSE CHARACTERISTICS

Note: Specification is subject to change without further notice. For more details and updates, please visit our website.