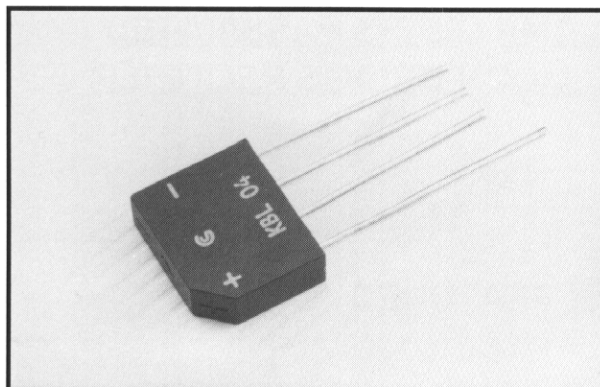




KBL005 Thru KBL10

4 AMP SILICON BRIDGE RECTIFIER



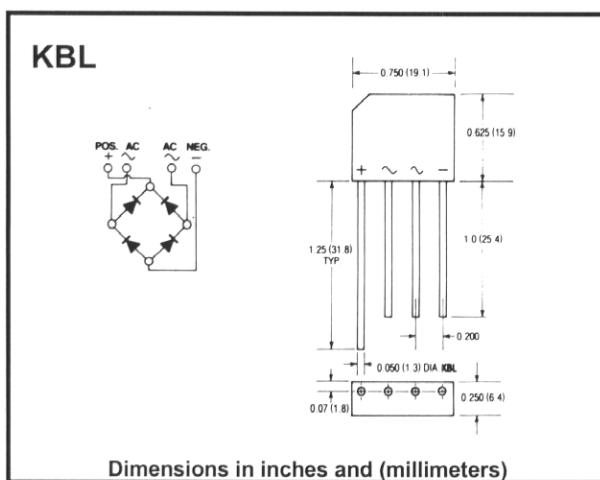
FEATURES

- Rating to 1000V PRV
- Surge overload rating to 200 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: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Weight: 0.2 ounce, 5.6 grams

Outline Drawing



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%

| | | KBL005 | KBL01 | KBL02 | KBL04 | KBL06 | KBL08 | KBL10 | 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 @ $T_A = 50^\circ C$ | $I_{(AV)}$ | 4.0 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load | I_{FSM} | 200 | | | | | | | A |
| Maximum DC Forward Voltage Drop per Element At 3.0A DC | V_F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current At Rated DC Blocking Voltage per Element @ $T_C = 100^\circ C$ | I_R | 10 1 | | | | | | | μA |
| $I^2 t$ Rating for Fusing ($t < 8.3ms$) | $I^2 t$ | 166 | | | | | | | $A^2 S$ |
| Operating Temperature Range | T_J | -55 to +125 | | | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |