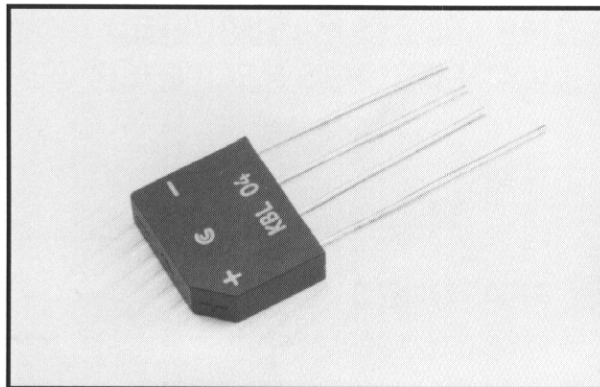




# KBL005 Thru KBL10

## 4 AMP SILICON BRIDGE RECTIFIER



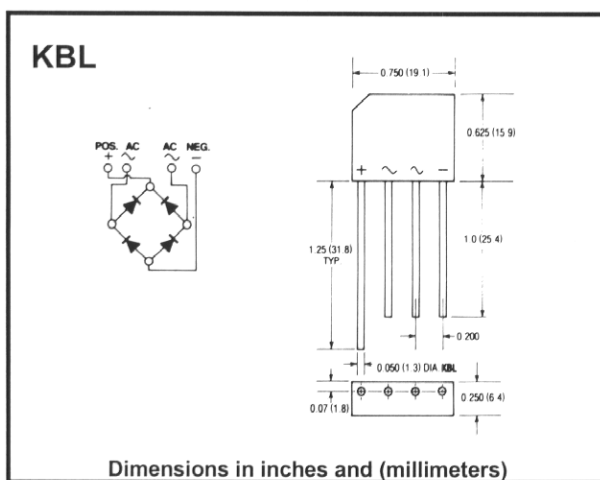
### FEATURES

- 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 @ $T_A = 50^\circ\text{C}$	$I_{(AV)}$	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 @ $T_C = 100^\circ\text{C}$	$I_R$	10 1							$\mu\text{A}$
$I^2 t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2 t$	166							$\text{A}^2 \text{S}$
Operating Temperature Range	$T_J$	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$