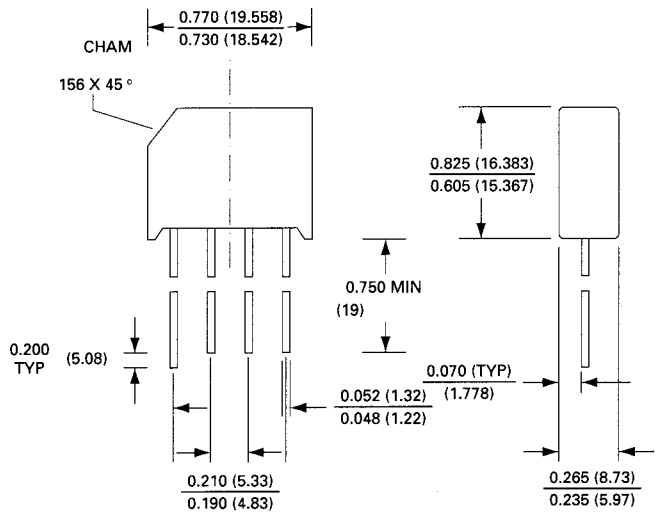
# KBL005 ...KBL10
# 4.0A SINGLE - PHASE SILICON BRIDGE

**Features**

- Ideal for printed circuit board
- Surge overload rating - 200 amperes peak
- Mounting Position: Any
- Leads: Silver-plated copper
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0.
- U/L recognized file # 142814

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
4.0 Amperes




Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**
Rating at 25 °C ambient temperature unless otherwise specified.
Signle 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 | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Output Current at 50 °C $T_A$ (Note 1) | 4.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load | 200 | | | | | | | A |
| Maximum Forward Voltage Drop per Bridge Eiement at 3A Peak | 1.0 | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | 10 | | | | | | | µA |
| Maximum Reverse Current at Rated DC Blocking Voltage and 150° $T_A$ | 1.0 | | | | | | | mA |
| Operating and storage temperature Range, $T_A$ | -55 to + 150 | | | | | | | °C |

**NOTES:** (1) Mounting conditions. 0.5" lead length maximum.

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**RATING AND CHARACTERISTICS CURVES**
KBL005 SERIES

**FIG. 1-MAXIMUM FORWARD SURGE CURRENT**

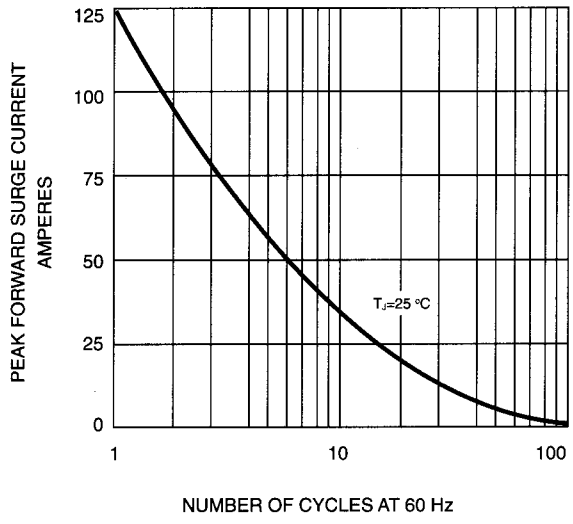


**FIG. 2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**

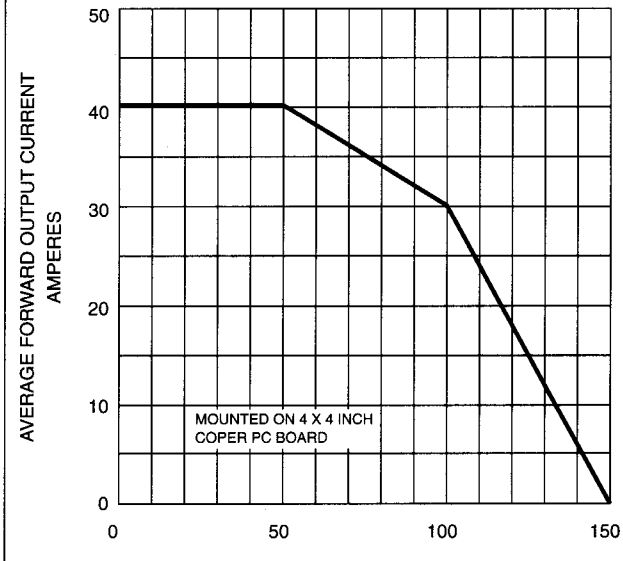


**FIG. 3-TYPICAL FORWARD CHARACTERISTICS**

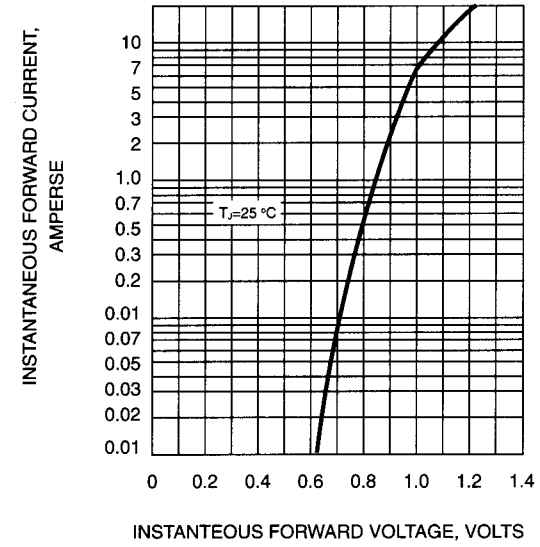


**FIG. 4-TYPICAL REVERSE CHARACTERISTICS (25 °C)**