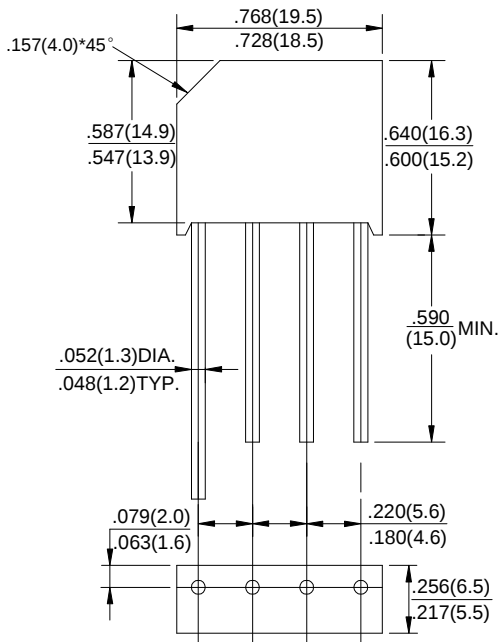


## KBL4005 thru KBL410



Dimensions in inches and (millimeters)

**Package: KBL**

## GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50 to 1000Volts**

FORWARD CURRENT - **4Amperes**

### FEATURES

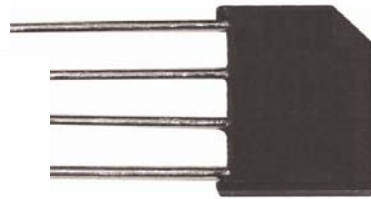
- Surge overload rating -125 Amperes peak
- Ideal for printed circuit board
- Plastic material has UL flammability classification 94V-0
- Mounting position :Any
- Weight: 0.18 ounces , 4.7 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%



| CHARACTERISTICS                                                                          | SYMBOL | KBL<br>4005 | KBL<br>401 | KBL<br>402 | KBL<br>404 | KBL<br>406 | KBL<br>408 | KBL<br>410 | UNIT |
|------------------------------------------------------------------------------------------|--------|-------------|------------|------------|------------|------------|------------|------------|------|
| Maximum Recurrent Peak Reverse Voltage                                                   | VRRM   | 50          | 100        | 200        | 400        | 600        | 800        | 1000       | V    |
| Maximum RMS Bridge Input Voltage                                                         | VRMS   | 35          | 70         | 140        | 280        | 420        | 560        | 700        | V    |
| Maximum DC Blocking Voltage                                                              | VDC    | 50          | 100        | 200        | 400        | 600        | 800        | 1000       | V    |
| Maximum Average Forward Output Current at 50°C TA (Note1)                                | I(AV)  | 4.0         |            |            |            |            |            |            | A    |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load | IFSM   | 125         |            |            |            |            |            |            | A    |
| Maximum Forward Voltage Drop Per Element<br>at 4.0A Peak                                 | VF     | 1.1         |            |            |            |            |            |            | V    |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage                               | IR     | 10.0        |            |            |            |            |            |            | uA   |
| Maximum Reverse Current at<br>Rated DC Blocking Voltage and 150°C TA                     | IR     | 1.0         |            |            |            |            |            |            | mA   |
| Operating Temperature Range TJ                                                           | TJ     | -55 to +150 |            |            |            |            |            |            | °C   |
| Storage Temperature Range TA                                                             | TSTG   | -55 to +150 |            |            |            |            |            |            | °C   |

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

## GLASS PASSIVATED BRIDGE RECTIFIERS RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

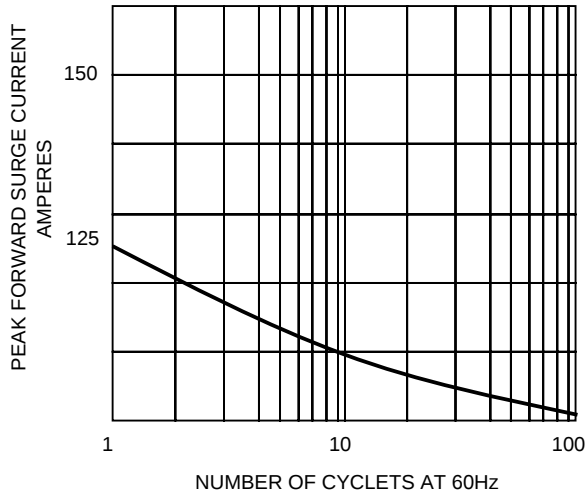


FIG.2-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

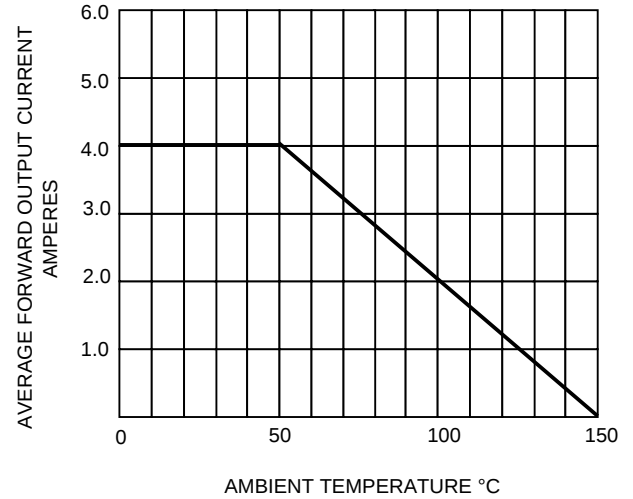


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

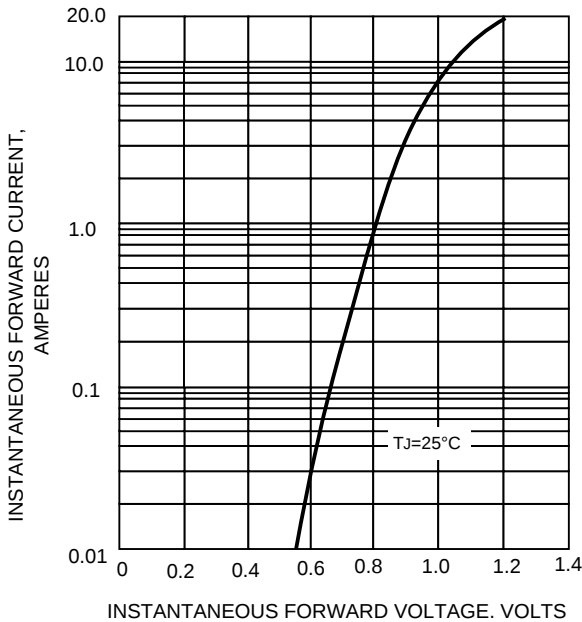


FIG.4-TYPICAL REVERSE CHARACTERISTICS

