

# KBL801G THRU KBL810G

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

### FEATURES:

- Plastic material used carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- High forward surge current capability
- High temperature soldering guaranteed :  
250° C/10 seconds, 0.375"(9.5mm)lead length,  
5lbs. (2.3kg) tension

### MECHANICAL DATA

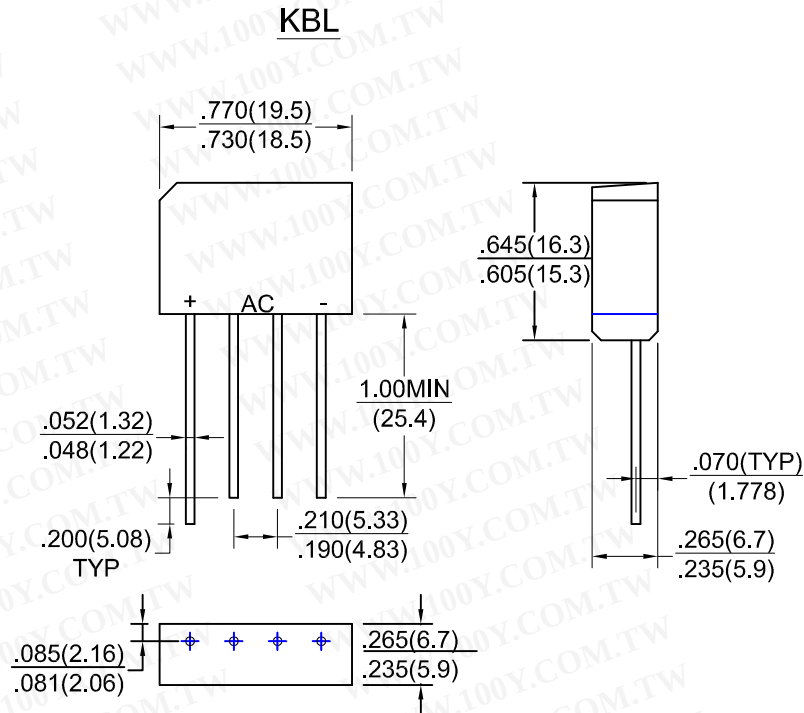
Case : Molded plastic body

Terminals : Plated lead solderable per MIL-STD-750,  
Method 2026

Mounting Position : Any

Mounting Torque : 5 in.-lb.max.

Weight : 5.00 grams or 0.167 ounce per piece



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

| Characteristic                                                                                      | Symbol                           | KBL<br>801G  | KBL<br>802G | KBL<br>803G | KBL<br>804G | KBL<br>806G | KBL<br>808G | KBL<br>810G | Units |
|-----------------------------------------------------------------------------------------------------|----------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| Maximum recurrent peak reverse voltage                                                              | V <sub>RRM</sub>                 | 50           | 100         | 200         | 400         | 600         | 800         | 1000        | Volts |
| Maximum RMS voltage                                                                                 | V <sub>RMS</sub>                 | 35           | 70          | 140         | 280         | 420         | 560         | 700         | Volts |
| Maximum DC blocking voltage                                                                         | V <sub>DC</sub>                  | 50           | 100         | 200         | 400         | 600         | 800         | 1000        | Volts |
| Maximum average forward rectified current<br>at Ta=50° C                                            | I <sub>O</sub>                   | 8.0          |             |             |             |             |             |             | Amps  |
| Peak forward surge current ,8.3ms single half sine-wave<br>superimposed on rated load(JEDEC Method) | I <sub>FSM</sub>                 | 250          |             |             |             |             |             |             | Amps  |
| Maximum instantaneous forward voltage drop<br>per leg at 8.0 A                                      | V <sub>F</sub>                   | 1.1          |             |             |             |             |             |             | Volts |
| Maximum DC reverse current<br>at rated DC blocking voltage<br>Ta=25° C<br>Ta=125° C                 | I <sub>R</sub>                   | 5.0<br>500.0 |             |             |             |             |             |             | μ A   |
| Operating junction and storage temperature range                                                    | T <sub>j</sub> ,T <sub>stg</sub> | -55 to +150  |             |             |             |             |             |             | ° C/W |

# RATINGS AND CHARACTERISTIC CURVES KBL801G THRU KBL810G

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

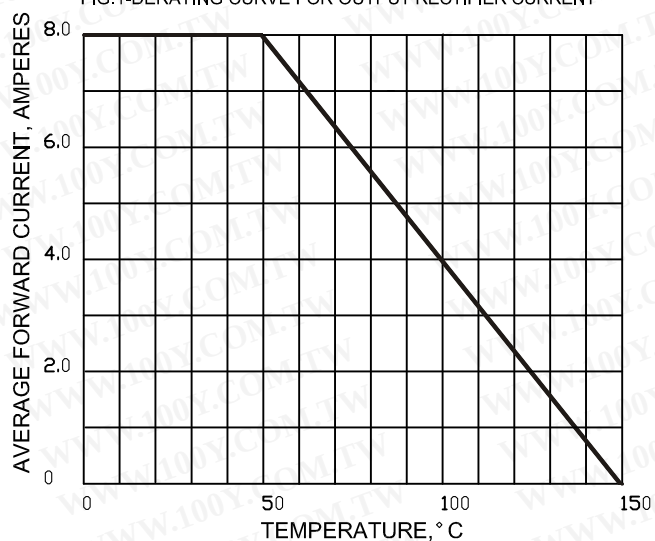


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

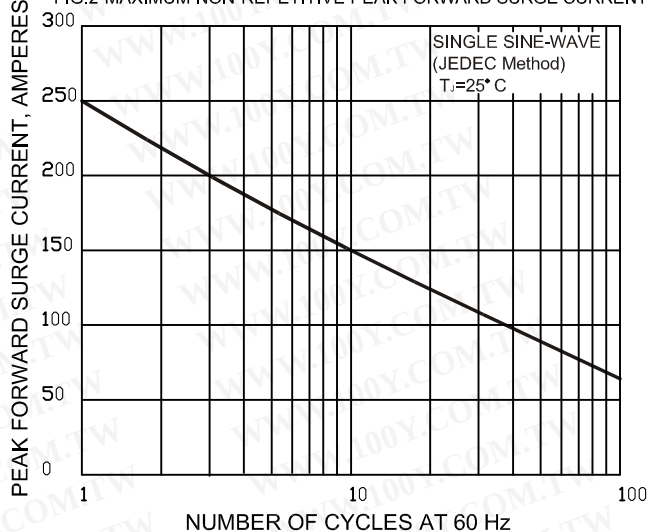


FIG.3-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER BRIDGE ELEMENT

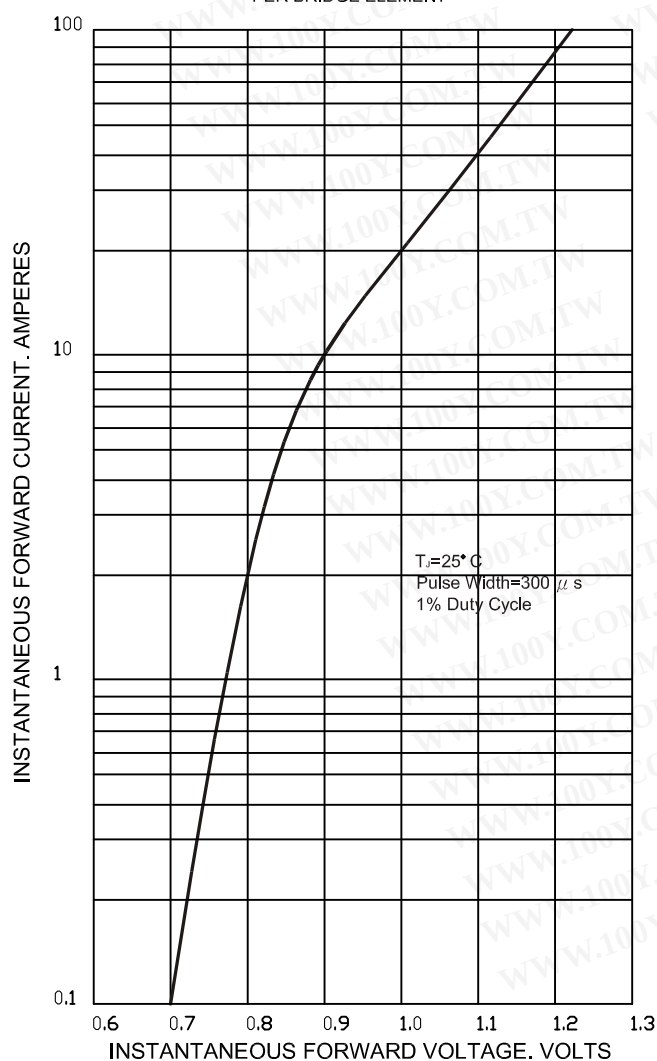


FIG.4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

