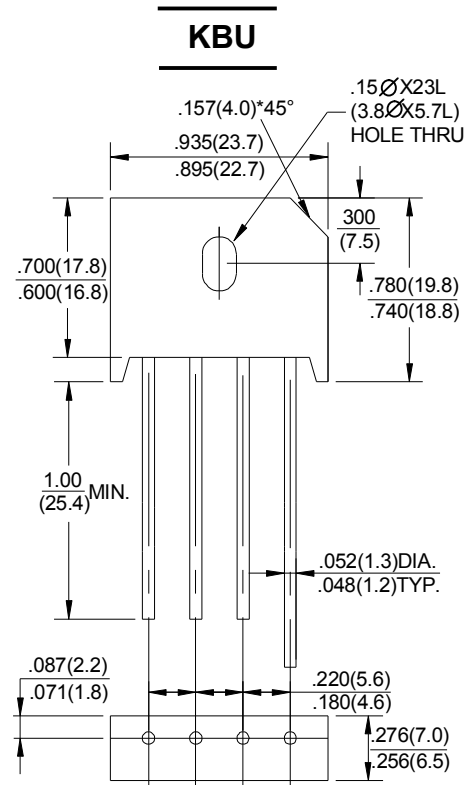


## GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts  
FORWARD CURRENT - 15.0 Amperes

### FEATURES

- Surge overload rating -250 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0
- Mounting position: Any



Dimensions in inches and (millimeters)

### 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            | KBU 15005G  | KBU 1501G | KBU 1502G | KBU 1504G | KBU 1506G | KBU 1508G | KBU 1510G | UNIT |
|---|-------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>  | 50          | 100       | 200       | 400       | 600       | 800       | 1000      | V    |
| Maximum RMS Voltage   | V <sub>RMS</sub>  | 35          | 70        | 140       | 280       | 420       | 560       | 700       | V    |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>   | 50          | 100       | 200       | 400       | 600       | 800       | 1000      | V    |
| Maximum Average Forward Rectified Current (with heatsink Note 1) @ T <sub>c</sub> =100°C (without heatsink) | I <sub>(AV)</sub> | 15.0<br>3.2 |           |           |           |           |           |           | A    |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)           | I <sub>FSM</sub>  | 250         |           |           |           |           |           |           | A    |
| Maximum Forward Voltage at 7.5A DC  | V <sub>F</sub>    | 1.1         |           |           |           |           |           |           | V    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>J</sub> =25°C @ T <sub>J</sub> =125°C      | I <sub>R</sub>    | 10<br>500   |           |           |           |           |           |           | μA   |
| Operating Temperature Range   | T <sub>J</sub>    | -55 to +150 |           |           |           |           |           |           | °C   |
| Storage Temperature Range   | T <sub>STG</sub>  | -55 to +150 |           |           |           |           |           |           | °C   |

NOTES: 1. Device mounted on 100mm\*100mm\*1.6mm Cu plate heatsink.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

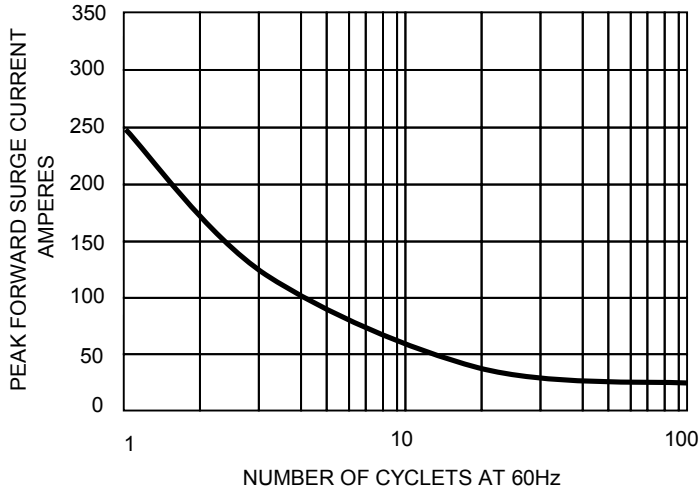


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

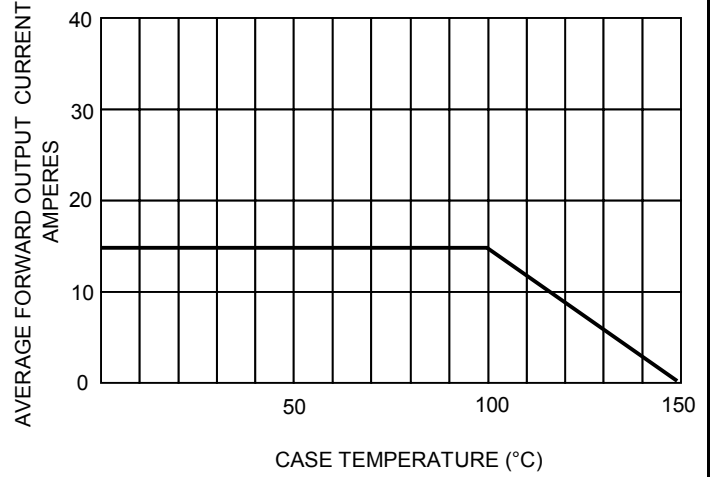


FIG.3- TYPICAL FORWARD CHARACTERISTICS

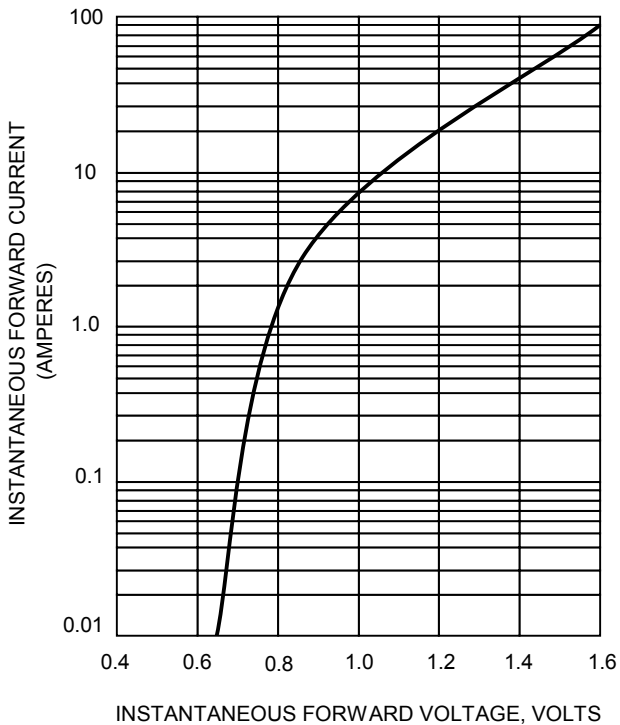


FIG.4- TYPICAL REVERSE CHARACTERISTICS

