

### KBP201G THRU KBP207G

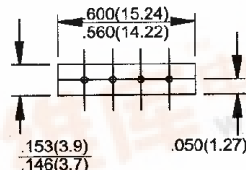
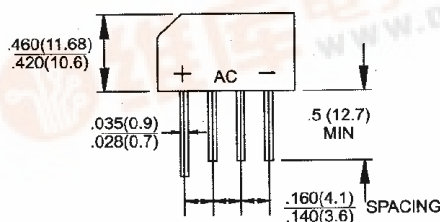
#### Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers

#### Features

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 250 °C / 10 seconds at 5 lbs. ( 2.3 Kg ) tension
- Small size, simple installation  
Leads solderable per MIL-STD-202, Method 208

Voltage Range  
50 to 1000 Volts  
Current  
2.0 Amperes

#### KBP



Dimensions in inches and (millimeters)

#### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| Symbols  | KBP 201G    | KBP 202G | KBP 203G | KBP 204G | KBP 205G | KBP 206G | KBP 207G | Units    |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|
| Maximum Recurrent Peak Reverse Voltage   | 50          | 100      | 200      | 400      | 600      | 800      | 1000     | V        |
| Maximum RMS 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 Current @ T <sub>A</sub> = 50°C                                      | 2.0         |          |          |          |          |          |          | A        |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )    | 60          |          |          |          |          |          |          | A        |
| Maximum Instantaneous Forward Voltage @ 1.0A   | 1.1         |          |          |          |          |          |          | V        |
| Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C | 10<br>500   |          |          |          |          |          |          | uA<br>uA |
| Operating Temperature Range T <sub>J</sub>   | -55 to +150 |          |          |          |          |          |          | °C       |
| Storage Temperature Range T <sub>STG</sub>   | -55 to +150 |          |          |          |          |          |          | °C       |



## RATINGS AND CHARACTERISTIC CURVES (KBP201G THRU KBP207G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

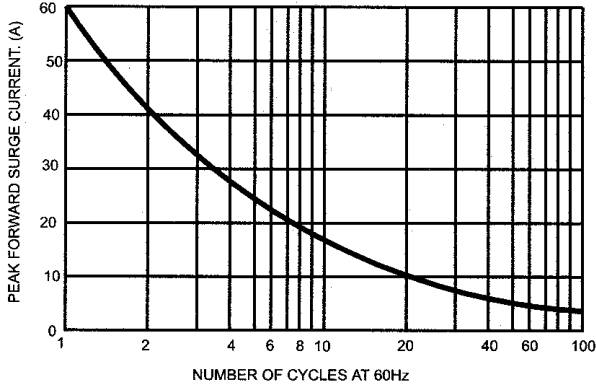


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

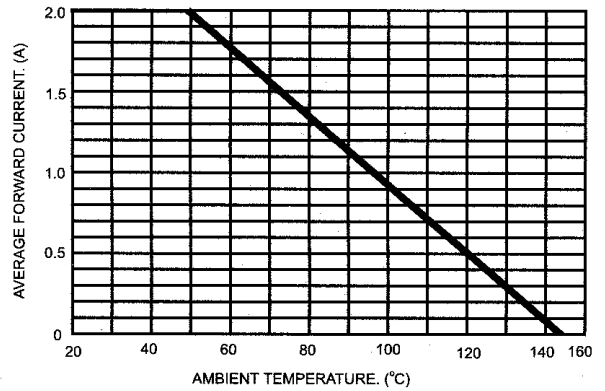


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

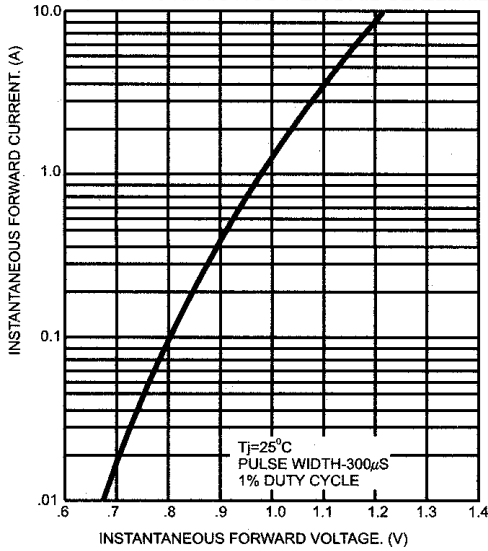


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

