

## KBU1001 - KBU1007

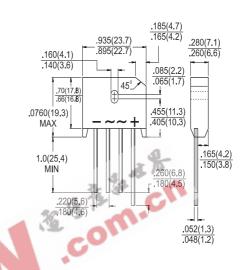


Single Phase 10 AMPS. Silicon Bridge Rectifiers
<u>KBU</u>



## **Features**

- ♦ UL Recognized File # E-96005
- ♦ High surge current capability
- ♦ Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260 °C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ♦ Weight: 8 grams



Dimensions in inches and (millimeters)

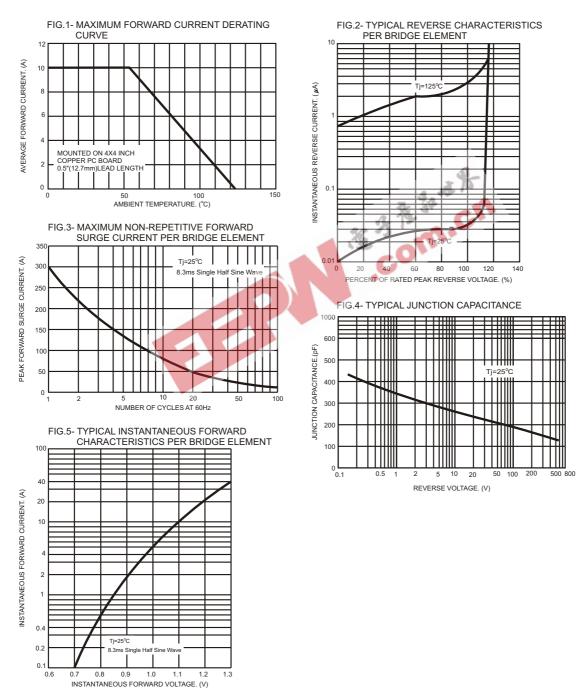
## **Maximum Ratings and Electrical Characteristics**

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%

| Type Number  | Symbol            |             | KBU  | KBU  | KBU  | KBU  | KBU  | KBU  | Units    |
|--|-------------------|-------------|------|------|------|------|------|------|----------|
|  |                   | 1001        | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 |          |
| 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<br>Current @ $T_A = 55 ^{\circ}C$                                      | I <sub>(AV)</sub> | 10          |      |      |      |      |      |      | А        |
| Peak Forward Surge Current, 8.3 ms Single<br>Half Sine-wave Superimposed on Rated<br>Load (JEDEC method) |                   | 300         |      |      |      |      |      |      | А        |
| Maximum Instantaneous Forward Voltage<br>@ 5.0A<br>@ 10A   | V <sub>F</sub>    | 1.0<br>1.1  |      |      |      |      |      |      | V        |
| Maximum DC Reverse Current @ $T_A=25$ °C at Rated DC Blocking Voltage @ $T_A=125$ °C                     | I <sub>R</sub>    | 10<br>500   |      |      |      |      |      |      | uA<br>uA |
| Typical Thermal Resistance (Note)  | R <sub>θJC</sub>  | 2.2         |      |      |      |      |      |      | °C/W     |
| Operating Temperature Range  | TJ                | -55 to +125 |      |      |      |      |      |      | °C       |
| Storage Temperature Range  | T <sub>STG</sub>  | -55 to +150 |      |      |      |      |      |      | °C       |

Note: Thermal Resistance from Junction to Case with Device Mounted on 2" x 3" x 0.25" Al-Plate.





## RATINGS AND CHARACTERISTIC CURVES (KBU1001 THRU KBU1007)