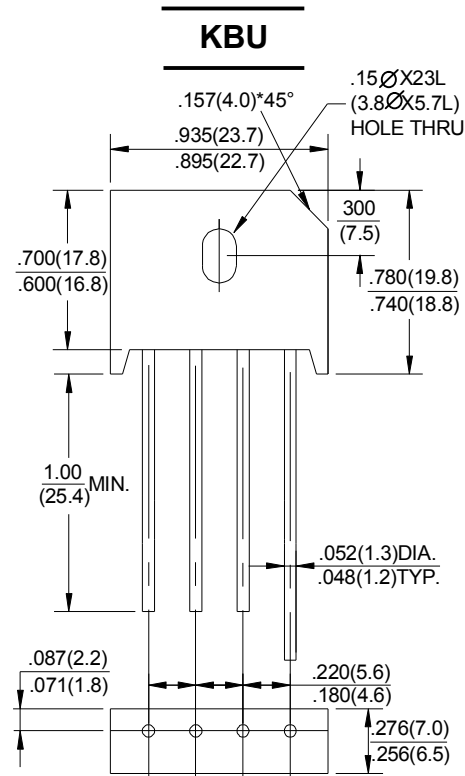


## SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50 to 1000Volts**  
FORWARD CURRENT - **35.0 Amperes**

### FEATURES

- Surge overload rating -400 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 35005   | KBU 3501 | KBU 3502 | KBU 3504 | KBU 3506 | KBU 3508 | KBU 3510 | 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 (with heatsink Note 1) Rectified Current @ T <sub>c</sub> =100°C (without heatsink) | I <sub(av)< sub=""></sub(av)<> | 35.0<br>4.2 |          |          |          |          |          |          | A    |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)           | I <sub>FSM</sub>               | 400         |          |          |          |          |          |          | A    |
| Maximum Forward Voltage at 17.5A DC                                                                         | V <sub>F</sub>                 | 1.1         |          |          |          |          |          |          | V    |
| Maximum DC Reverse Current @ T <sub>J</sub> =25°C at Rated DC Blocking Voltage @ T <sub>J</sub> =125°C      | I <sub>R</sub>                 | 10<br>500   |          |          |          |          |          |          | µA   |
| Operating Temperature Range                                                                                 | T <sub>J</sub>                 | -55 to +125 |          |          |          |          |          |          | °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

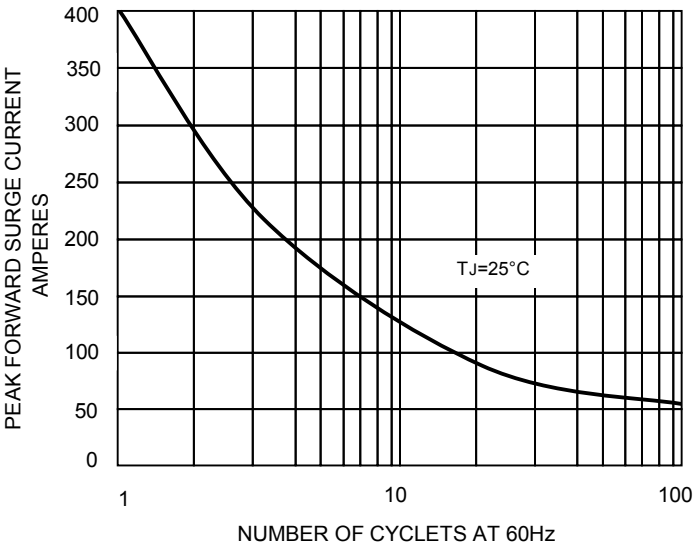


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

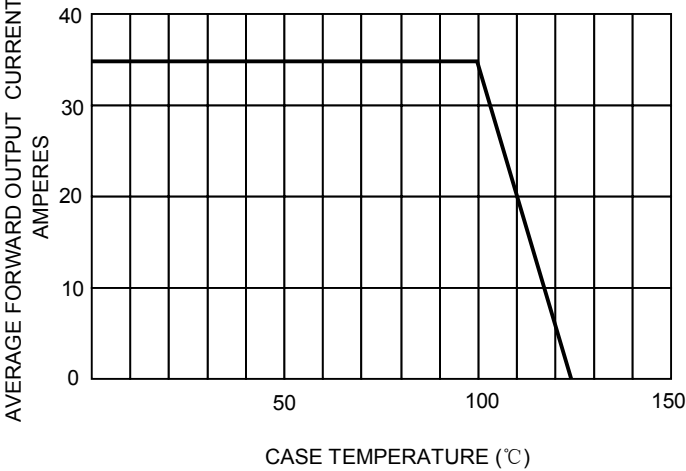


FIG.3– TYPICAL FORWARD CHARACTERISTICS

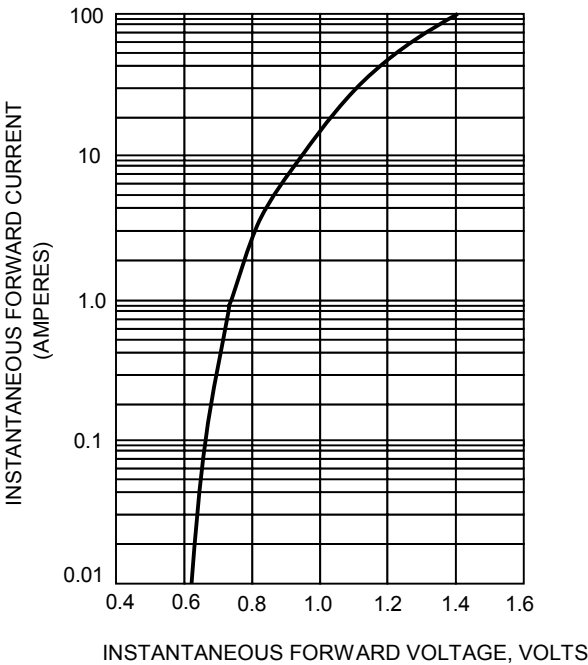


FIG.4– TYPICAL REVERSE CHARACTERISTICS

