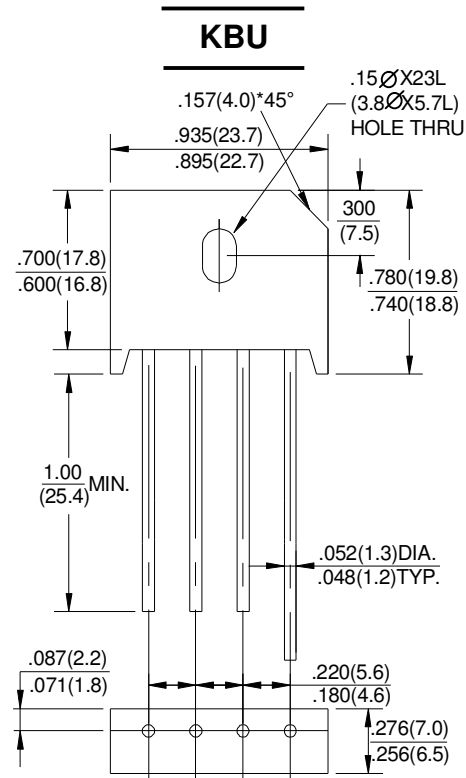


SILICON BRIDGE RECTIFIERS

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

FEATURES

- Surge overload rating -300 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 15005 | KBU 1501 | KBU 1502 | KBU 1504 | KBU 1506 | KBU 1508 | KBU 1510 | UNIT |
|---|-------------------|-------------|----------|----------|----------|----------|----------|----------|------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward (with heatsink Note 1) Rectified Current @ T _c =100°C (without heatsink) | I _(AV) | 15.0 3.2 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | I _{FSM} | 300 | | | | | | | A |
| Maximum Forward Voltage at 7.5A DC | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C | I _R | 10 500 | | | | | | | µA |
| Operating Temperature Range | T _J | -55 to+150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to+150 | | | | | | | °C |

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

FIG.1-MAXIMUM FORWARD SURGE CURRENT

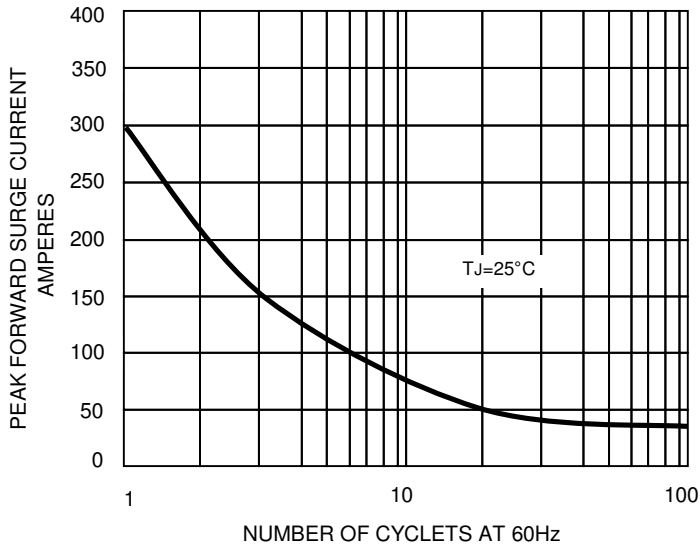


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

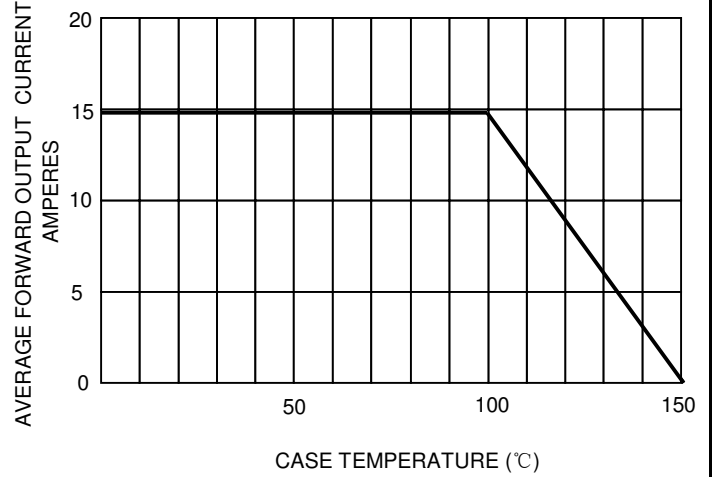


FIG.3– TYPICAL FORWARD CHARACTERISTICS

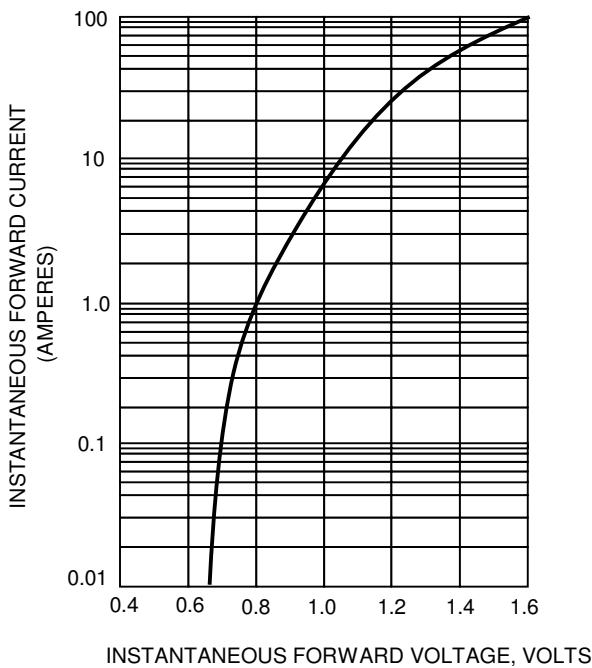


FIG.4– TYPICAL REVERSE CHARACTERISTICS

