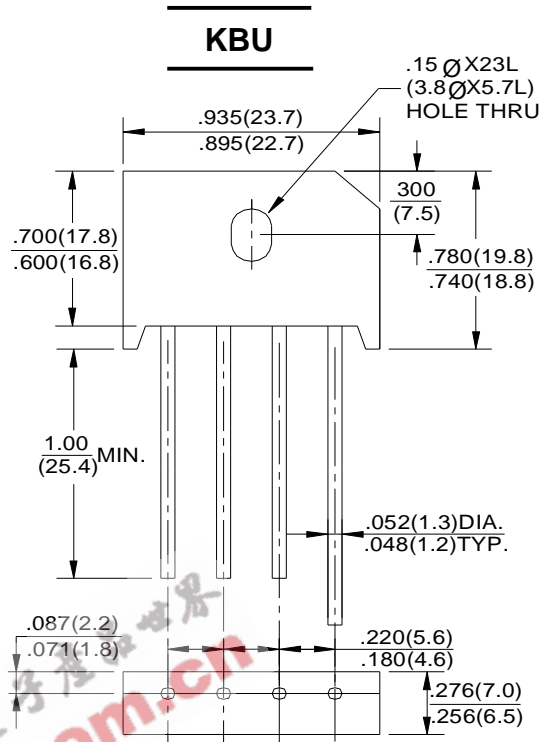


GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 4 / 6 / 8 Amperes

FEATURES

- Surge overload rating -125~175 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has UL
- Mounting position: Any
- Mounting torque: 5 In.lb. Max



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 | KBU4005G | KBU401G | KBU402G | KBU404G | KBU406G | KBU408G | KBU410G | UNIT |
|---------------------------------------------------------------------------------------------------|-------------|---------|---------|---------|---------|---------|---------|------|
| | KBU6005G | KBU601G | KBU602G | KBU604G | KBU606G | KBU608G | KBU610G | |
| | KBU8005G | KBU801G | KBU802G | KBU804G | KBU806G | KBU808G | KBU810G | |
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 40 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 40 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Output Current at T _C =100°C | | 4.0 | | 6.0 | | | 8.0 | A |
| Rectified Output Current at T _A =50°C/40°C/45°C | | 4.0 | | 6.0 | | | 6.0 | A |
| Peak Forward Surge Current 8.3ms single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | KBU4G | 125 | KBU6G | 150 | | KBU8G | 175 | A |
| Maximum Instantaneous Forward Voltage Drop per Element at 4.0A/3.0A/4.0A | | 1.1 | | 1.1 | | | 1.1 | mV |
| Maximum Reverse Leakage at rated DC Blocking Voltage Per Element | | 10 | | 10 | | | 10 | μA |
| | | 100 | | 200 | | | 300 | mA |
| Operating and Storage Temperature Range T _J .T _{STG} | -55 to +150 | | | | | | | °C |

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

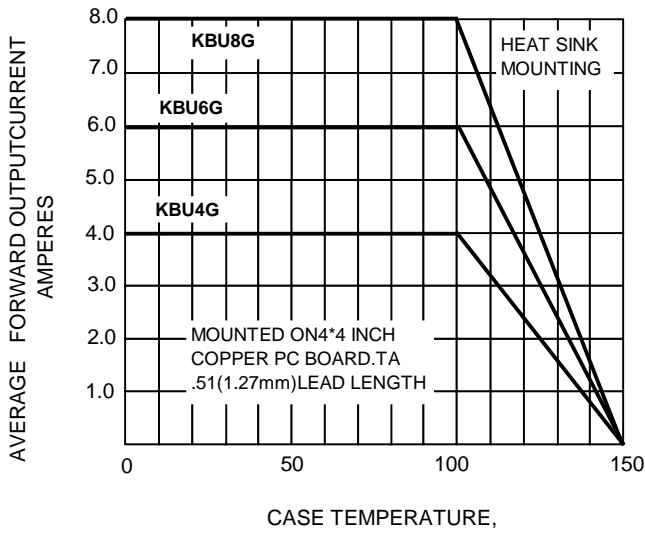


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

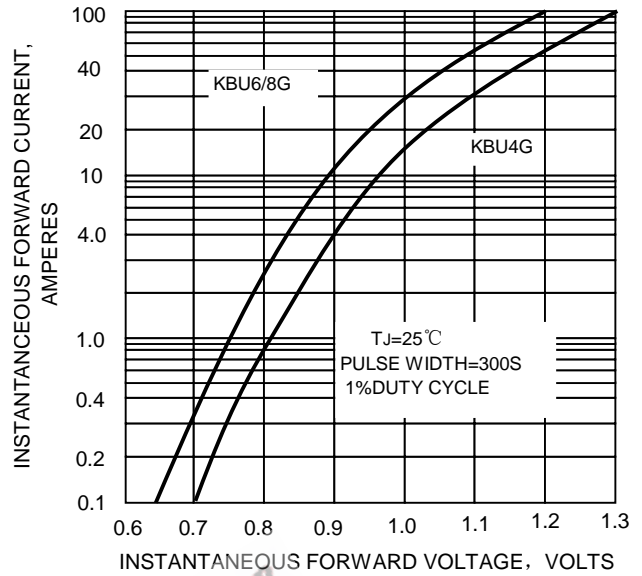


FIG.3-MAXIMUM NON-RETTITIVE PEAK FORWARD SURGE CURRENT

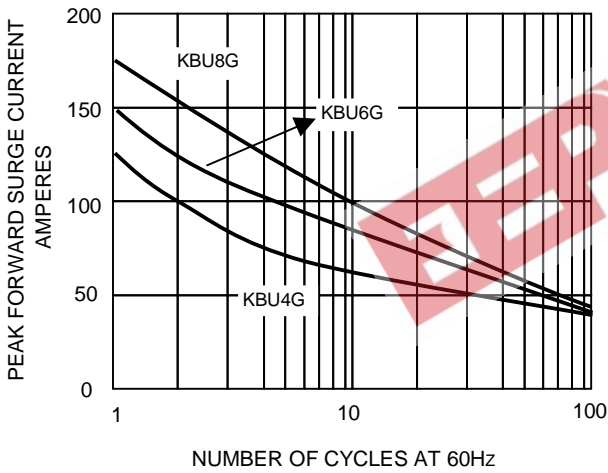


FIG.4-TYPICAL REVERSE CHARACTERISTICS

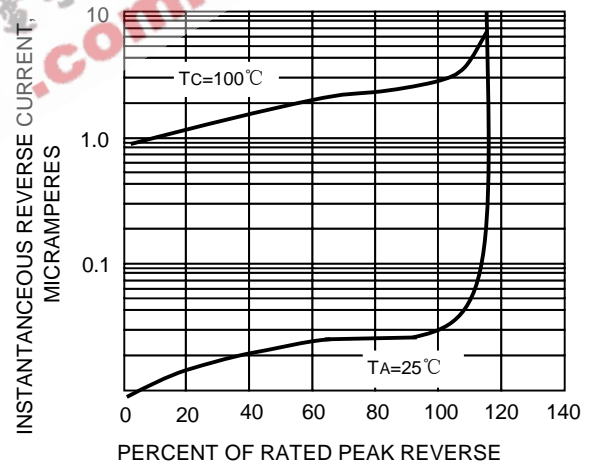


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

