

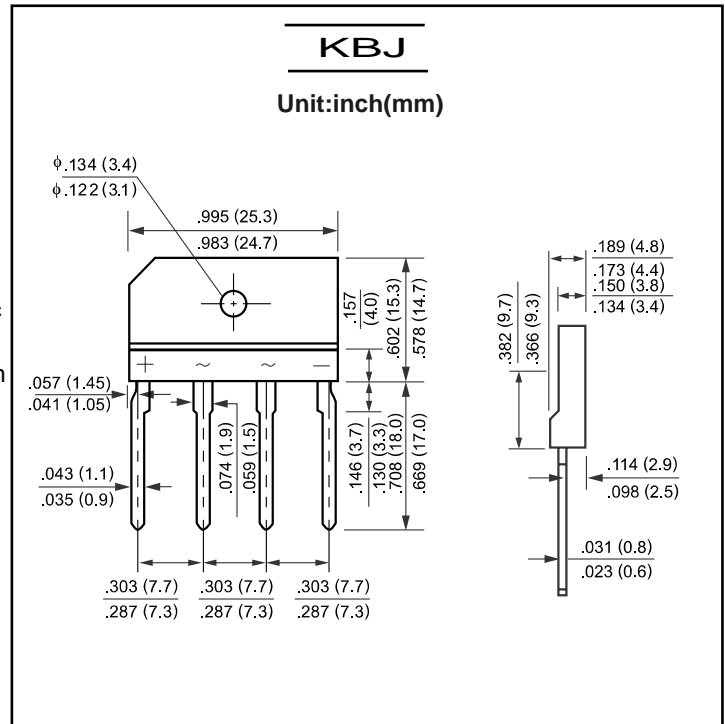
GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Electrically isolated base-1500 Volts

MECHANICAL DATA

- Polarity : Symbols molded on body
- Weight : 0.15 ounces, 4.0 grams
- Mounting position : Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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 | KBJ 10005 | KBJ 1001 | KBJ 1002 | KBJ 1004 | KBJ 1006 | KBJ 1008 | KBJ 1010 | 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 2) Rectified Current @T _C =110°C (without heatsink) | I _(AV) | 10 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave Non-repetitive, @T _J =25 °C | I _{FSM} | 175 | | | | | | | A |
| Maximum forward Voltage at 5.0A DC | V _F | 1.0 | | | | | | | V |
| Maximum DC Reverse Current @T _J =25 °C at Rated DC Blocking Voltage @T _J =125 °C | I _R | 5.0 500 | | | | | | | uA |
| I ² t Rating for fusing (t < 8.3ms) | I ² t | 120 | | | | | | | A ² S |
| Typical Junction Capacitance per element (Note 1) | C _J | 45 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{θJC} | 2.0 | | | | | | | °C/W |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Unit Mounted on 150mm x 150mm x 1.6mm Cu Plate Heatsink.



WEET Technology Company Limited

Single Phase Bridge Rectifiers

KBJ10005 thru KBJ1010

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 10 Amperes

FIG.1-FORWARD CURRENT DERATING CURVE

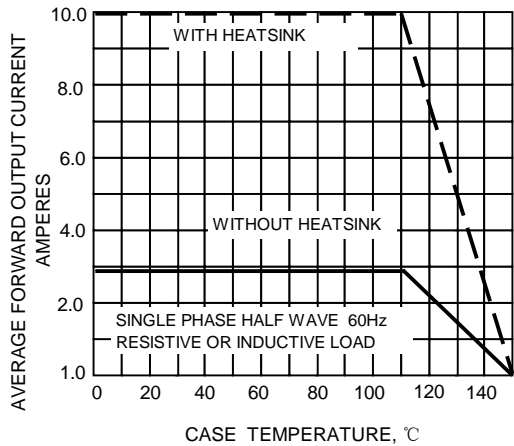


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

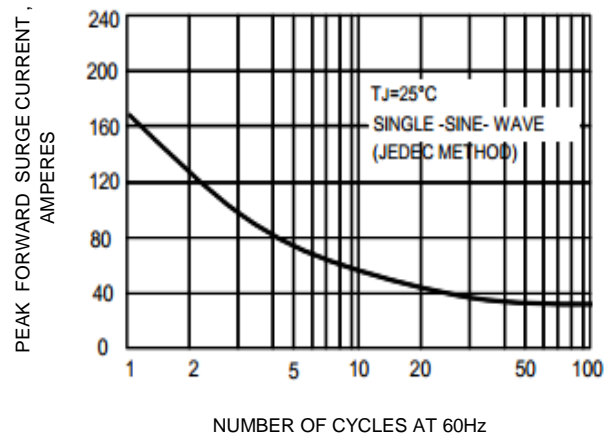


FIG.3-TYPICAL JUNCTION CAPACITANCE

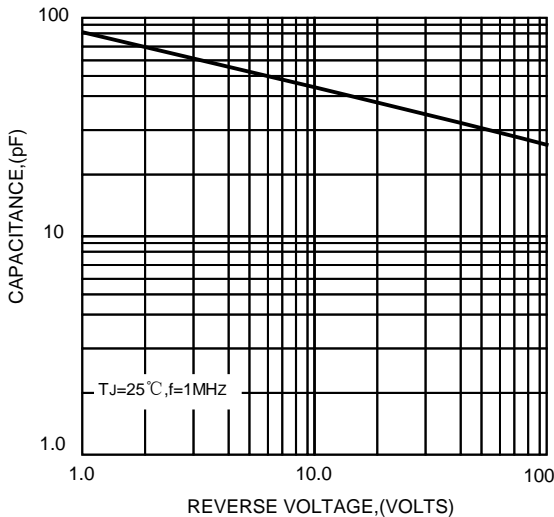


FIG.4-TYPICAL FORWARD CHARACTERISTICS

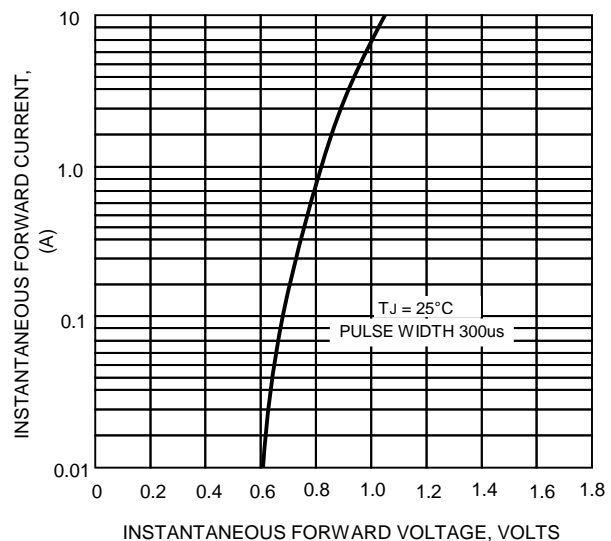
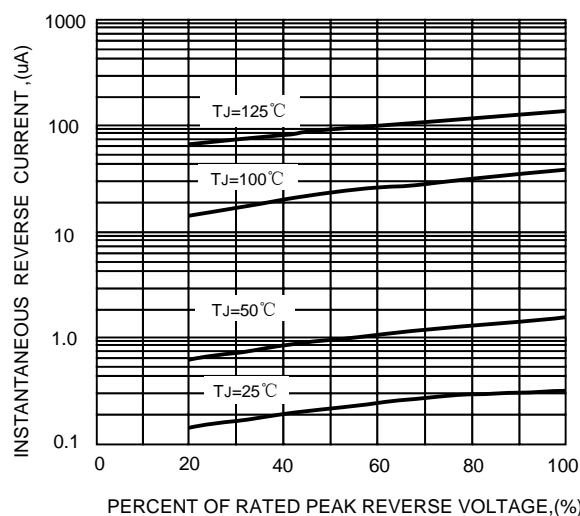


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.