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SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

KBU6A - KBU6M

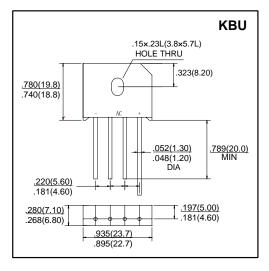
VOLTAGE RANGE - 50 to 1000 V **CURRENT - 6 A**

FEATURES

- Glass Passivated Chip
- High forward surge current capability Ideal for printed circuit board
- High temperature soldering guaranteed:260 °C/10 second,
- 0.375" (9.5mm) lead length at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Transfer molded plastic
- Terminal: Lead solderable per MIL-STD-202E method 208C
- Polarity: Polarity symbols marked on case
- Mounting: Thru hole for #6 screw, 5 in.-lbs terque max
- Weight: 0.27 ounce, 7.59 gram



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%.

| | | SYMBOLS | KBU6A | KBU6B | KBU6D | KBU6G | KBU6J | KBU6K | KBU6M | UNITS |
|--|------------------------------------|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|------------------|
| Maximum Repetitive Peak Reverse Voltage | | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward T _C =1 | 5℃ (Note 2) | т | 6.0 | | | | | | | Amps |
| Rectified Output Current, at T _A =2: | 5°C (Note 3) | I _(AV) | 2.5 | | | | | | | |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | | I _{FSM} | 135 | | | | | | | Amps |
| Rating for Fusing (t<8.3ms) | | $I^2 t$ | 75 | | | | | | | A ² s |
| Maximum Instantaneous Forward Voltage Drop per bridge element at 6.0A | | $V_{\rm F}$ | 1.1 | | | | | | | Volts |
| Maximum DC Reverse Current at rated | $T_A\!\!=\!\!25^\circ\!\mathbb{C}$ | I _R | 5 | | | | | | | μAmps |
| DC blocking voltage per element | $T_A=100$ °C | IR | 0.5 | | | | | | | mAmps |
| Typical Junction Capacitance (Note 1) | | C_J | 200 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | | $R_{\theta JC}$ | 5 | | | | | | | °C/W |
| Operating and Storage Temperature Range | | T _J , T _{STG} | -55 to +150 | | | | | | | °C |

NOTES:

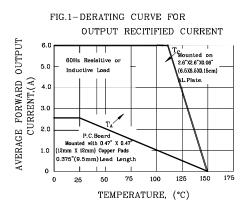
- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on 2.6"x1.4"x0.06" thick (6.3x3.5x0.15cm) Al. plate.
- 3. Unit mounted in free air, no heatsink, P.C.B at 0.375" (9.5mm) lead length with 0.5"x0.5"
- (12x12cm) copper pads

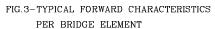


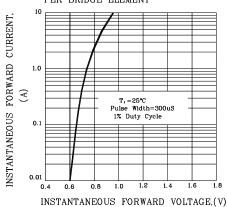
KBU6A - KBU6M

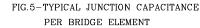
VOLTAGE RANGE - 50 to 1000 V CURRENT - 6 A

RATING AND CHRACTERISTIC CURVES KBU6A - KBU6M









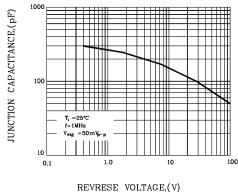


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

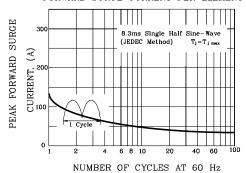


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

