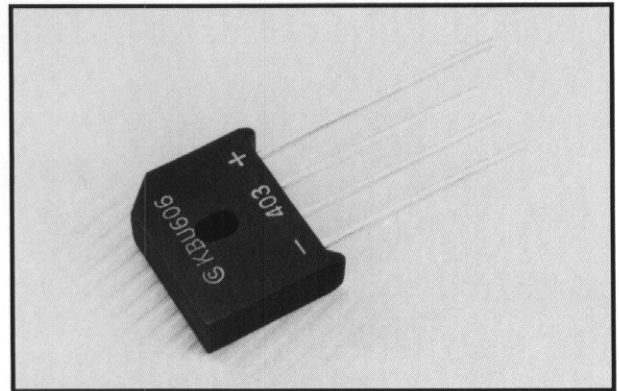




KBU6005 Thru KBU610

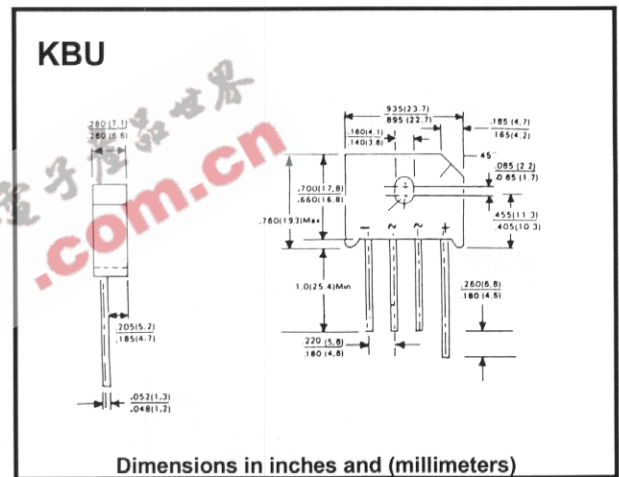
6 AMP SILICON BRIDGE RECTIFIER



FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Surge overload rating to 250 Amperes peak
- Reliable low cost construction utilizing molded plastic technique
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

Outline Drawing



Mechanical Data

- Case: Molded Plastic
- Mounting torque: 5 in. lb. max.
- Mounting position: Any
- Weight: 0.3 ounce, 8.0 grams

Maximum Ratings & 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%

| | | KBU6005 | KBU601 | KBU602 | KBU604 | KBU606 | KBU608 | KBU610 | Units | |
|--|------------|---|--------|--------|--------|--------|--------|--------|-------------|---------------|
| 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} | 60 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| Maximum Average Forward Output Current | $I_{(AV)}$ | @ $T_C = 100^\circ C$ @ $T_A = 65^\circ C$ | | | | | | | 6.0 | A |
| Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load | I_{FSM} | | | | | | | | 250 | A |
| Maximum DC Forward Voltage Drop per Element At 3.0A DC | V_F | | | | | | | | 1 | V |
| Maximum DC Reverse Current At Rated DC Blocking Voltage per Element | I_R | | | | | | | | 10 1 | μA mA |
| Maximum Thermal Resistance (Note) | R_{THJC} | | | | | | | | 4.7 | $^\circ C/W$ |
| Operating Temperature Range | T_J | | | | | | | | -55 to +125 | $^\circ C$ |
| Storage Temperature Range | T_{STG} | | | | | | | | -55 to +150 | $^\circ C$ |

Note: Thermal resistance junction to case per diode