KBU6005 THRU KBU610

SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts **CURRENT 6.0 Ampere**

FEATURES

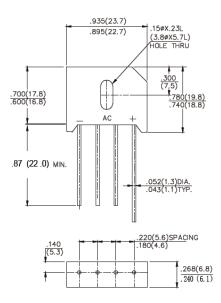
- ◆High forward surge current capability.
- ◆ Ideal for printed circult board.
- ◆High temperature soldering guaranteed:

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 208°C.
- ◆Polarity: Polarity symbols marked on case.
- ◆ Mounting: Thru hole for #6 screw, 5 in,- lbs. Torque Max.
- ♦ Weight: 0.27 ounce, 7.59 gram.

KBU



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%

| PARAMETER | | SYMBOL | KBU 6005 | KBU 601 | KBU 602 | KBU 604 | KBU 606 | KBU 608 | KBU 610 | UNIT |
|--|----------|------------------|-------------|------------|------------|------------|------------|------------|------------|--------|
| Maximum Repetitive Peak Revere 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 Rectified Output Current at Tc=100°C | | I(AV) | 6.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | | I _{FSM} | 150 | | | | | | | Amps |
| Rating for Fusing(t<8.3ms) | | I^2T | 93 | | | | | | | A^2s |
| Maximum Instantaneous Forward Voltage Drop per bridge element at 3.0A | | V_{F} | 1.0 | | | | | | Volts | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage per element | TA=25°C | $ m I_R$ | 10 | | | | | | | μΑ |
| | Ta=100°C | | 1.0 | | | | | | | mA |
| Typical Junction Capacitance (Note 1) | | C_{j} | 105 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | | RөJC | 4.7 | | | | | | | °C/W |
| Operating Temperature Range | | Tı | -65 to +150 | | | | | | | ℃ |
| Storage Temperature Range | | Тѕтс | -65 to +150 | | | | | | | |

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

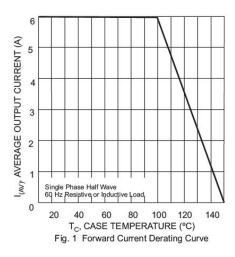
2. Unit mounted on 2.6" X 1.4" X 0.06" thick (6.3 X 3.5 X 0.15cm) Al. plate.

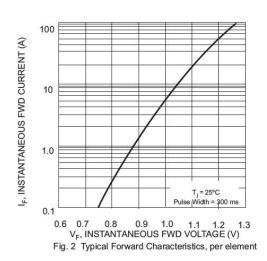


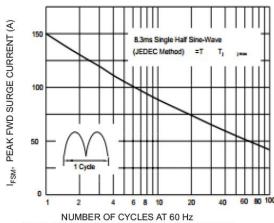
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RATING AND CHARACTERISTIC CURVES KBU6005 THRU KBU610







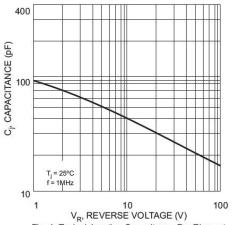
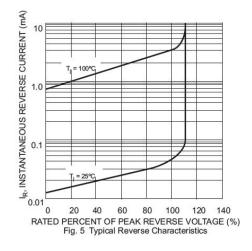


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

Fig. 4 Typical Junction Capacitance Per Element



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