Kingtronics®

KBU6005 THRU KBU610

SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts

CURRENT 6.0 Ampere

KBU

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℃.

Polarity: Polarity symbols marked on case.

Mounting: Thru hole for #6 screw, 5 in,- lbs. Torque Max.

Weight: 0.27 ounce, 7.59 gram.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

.935(23.7) .895(22.7) (3.69X5.7L) HOLE THRU .700(17.8) .600(16.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8) .740(18.8)

Dimensions in inches and (millimeters)

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℃		I(AV)	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150							Amps
Rating for Fusing(t<8.3ms)		I ² T	93							A ² s
Maximum Instantaneous Forward Voltage Drop per bridge element at 3.0A		VF	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	T _A =25℃	l _R	10							μΑ
	Ta=100°C		1.0							mA
Typical Junction Capacitance (Note 1)		C _j	105							pF
Typical Thermal Resistance (Note 2)		Rejc	4.7							°C/W
Operating Temperature Range		TJ	-65 to +150							*0
Storage Temperature Range		Тѕтс	-65 to +150							$^{\circ}$
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volta										

- 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.

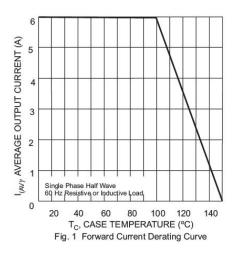
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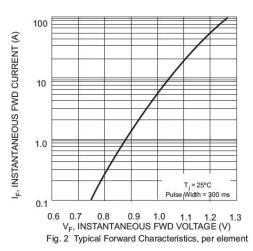
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

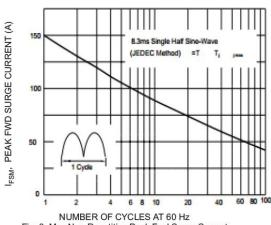
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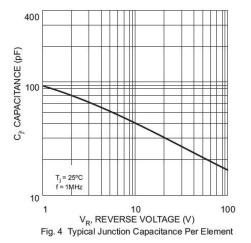
KBU6005 THRU KBU610

RATINGS AND CHARACTERISTIC CURVES



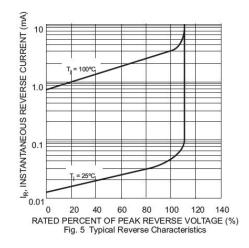






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Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



Note: Specifications are subject to change without notice.

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