# Kingtronics®

## KBU6005 THRU KBU610

## SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS **REVERSE VOLTAGE** 50 to 1000 Volts **FORWARD 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

For capacitive load derate current by 20%

# .700(17.8) .700(17.8) .700(17.8) .700(18.8) .700(17.8) .700(18.8) .700(17.8)

#### **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 <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc=100°C		I <sub>(AV)</sub>	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 <sup>2</sup> T	93							A <sup>2</sup> 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	Ta=25°C	l <sub>R</sub>	10							μА
	Ta=100°C		1.0							mA
Typical Junction Capacitance (Note 1)		C <sub>j</sub>	105							pF
Typical Thermal Resistance (Note 2)		Rejc	4.7							°CW
Operating Temperature Range		TJ	-65 to +150							°C
Storage Temperature Range		Тѕтс	-65 to +150							

- 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.

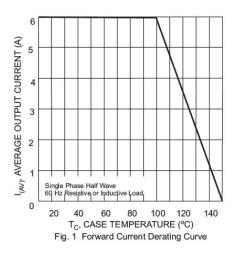
#### Kingtronics<sup>®</sup> International Company

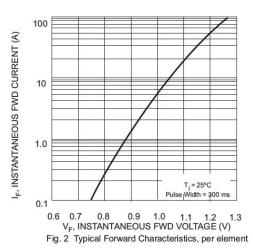
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

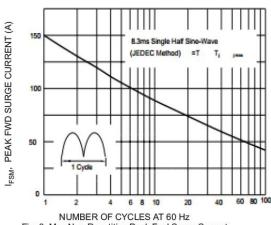
## Kingtronics®

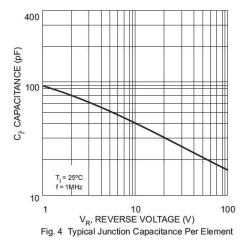
## KBU6005 THRU KBU610

#### **RATINGS AND CHARACTERISTIC CURVES**



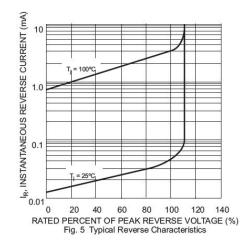






2

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



Note: Specifications are subject to change without notice.

#### Kingtronics International Company

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