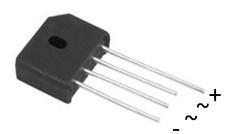
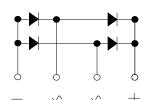




# **Bridge Rectifiers**





#### **Features**

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

## **Typical Applications**

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

#### **Mechanical Data**

• Package: KBU

Molding compound meets UL 94 V-0 flammability

rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: As marked on body

# ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610
Device marking code				KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610
Repetitive Peak Reverse Voltage		VRRM	٧	50	100	200	400	600	800	1000
Average Rectified Output Current@60Hz sine wave, R-load With heatsink Tc =105°C Without heatsink Ta =25°C		- IO	А	6 2.5						
Surge(Non-repetitive)Forward Current@60Hz half-sine wave, 1 cycle, Ta=25°C		IFSM	Α	135						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode		I <sup>2</sup> t	A <sup>2</sup> S	75						
Storage Temperature		T <sub>stg</sub>	°	-55 ~+150						
Junction Temperature		Tj	$^{\circ}\!\mathbb{C}$	-55 ~+150						

## ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=6A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	V <sub>RM</sub> =V <sub>RRM</sub>	10						

# **KBU6005 THRU KBU610**

## ■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610	
Thermal	Between junction and ambient, Without heatsink	RθJ-А		26 <sup>(1)</sup>							
Resistance	Between junction and case, With heatsink	RөJ-С	°C/W 5 <sup>(2)</sup>								

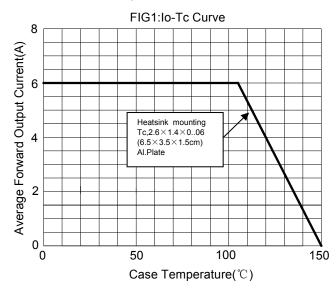
#### Notes

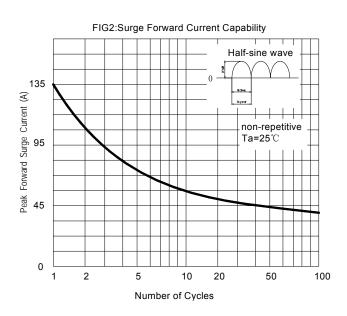
- (1) Thermal resistance from junction to ambient with units mounted in free air ,no heat sink,P.C.B. at 0.375" (9.5mm) lead length with 0.5×0.5"(12×12mm) copper pads.
- (2) Thermal resistance from junction to case with units mounted on an aluminum plate heat sink.

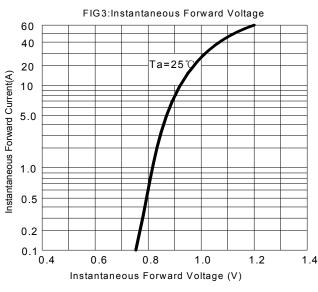
**■Ordering Information** (Example)

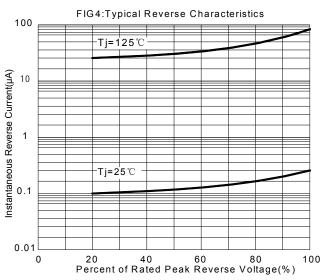
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBU6005~KBU610	A1	Approximate 7.2	400	400	2400	Paper Box

#### **■ Characteristics** (Typical)





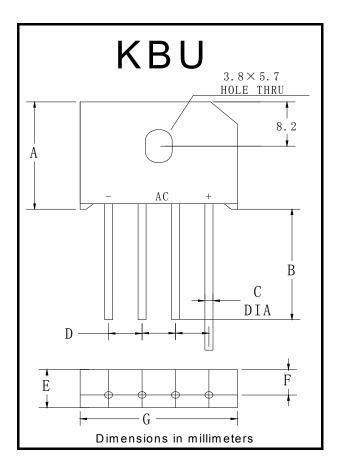






# **KBU6005 THRU KBU610**

## **■ Outline Dimensions**



KBU						
Dim	Min	Max				
Α	18.8	19.8				
В	20.0	1				
С	1.2	1.3				
D	4.6	5.6				
Е	6.8	7.1				
F	4.6	5.0				
G	22.7	23.7				



## **KBU6005 THRU KBU610**

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