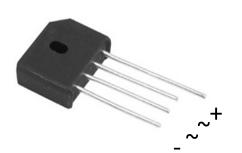
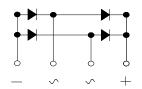


Bridge Rectifiers





Features

- UL recognition, file #E230084
- Glass passivated chip junction
- 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, -

• 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	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage		VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking Voltage		VDC	V	50	100	200	400	600	800	1000	
Average Rectified Output	With heatsink Tc =120°C	lo.	А	6.0							
Current @60Hz sine wave, R-load	Without heatsink Ta =25°C	IO		2.5							
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave,1 cycle, Tj=25°C		Ison	А	135							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM		270							
Current Squared Time @1ms≤t≤8.3ms Tj=25°C,Rating of per diode		l²t	A ² S	75.6							
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙cm	8							
Storage temperature		T _{stg}	°C	-55 ~ +150							
Junction temperature		Tj	°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	V	IFM=3.0A				1.0			
Maximum DC reverse current at			T _j =25°C	T _j =25°C 5						
rated DC blocking voltage per diode	IR	μΑ	T _j =125°C				100			
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				40			

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

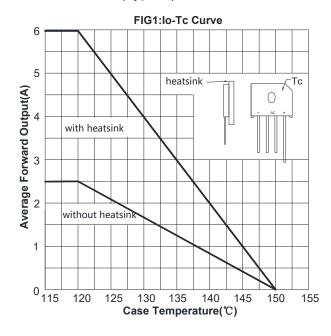
PARAMETER		SYMBOL	UNIT	KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610
Typical	Between junction and ambient, Without heatsink	RθJ-A °C/W		25.0						
Thermal Resistance	Between junction and case, With heatsink	R ₀ J-C	C/VV		2.2					

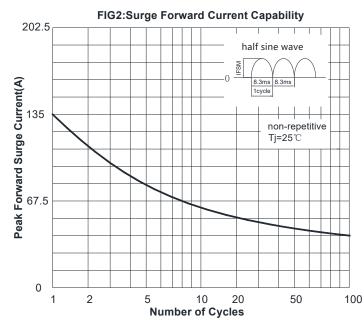
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

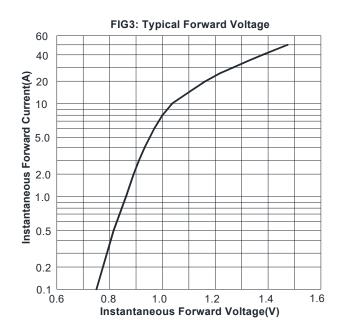
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBU6005 ~ KBU610	A1	Approximate 7.2	400	400	2400	Paper Box

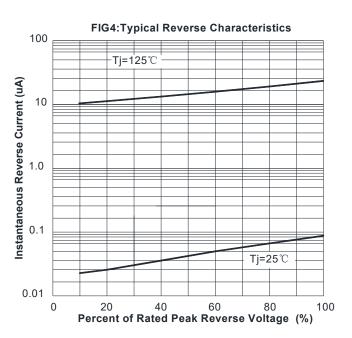
■ Characteristics(Typical)



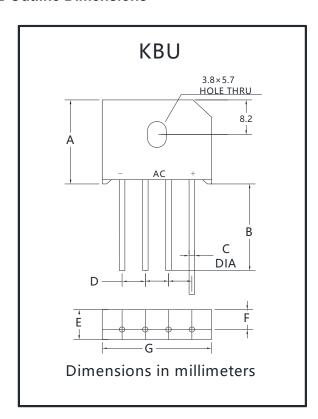








■ Outline Dimensions



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					



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