

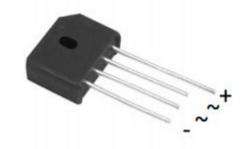
Bridge Rectifiers

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.



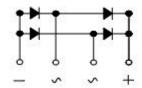
Mechanical Data

 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	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010
Device marking code			KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, Tc =115℃	lo	Α	10						
Surge(Non-repetitive)Forward Current @60Hz half-sine wave, 1 cycle, Ta=25℃	IFSM	Α	170						
Current Squared Time @1ms≤t≤8.3ms, Tj=25℃,Rating of per diode	l²t	A ² S	120						
Storage Temperature	Tstg	$^{\circ}$ C	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						

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

	PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010
	Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=5A				1.1			
	Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

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

	PARAMETER	SYMBOL	UNIT	KBU10005	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010
Thermal Resistance	Between junction and ambient,	R ₀ J-C	°C/W				4.7 ⁽¹⁾			

Notes

(1) Units Mounted on an aluminum plate heat sink.

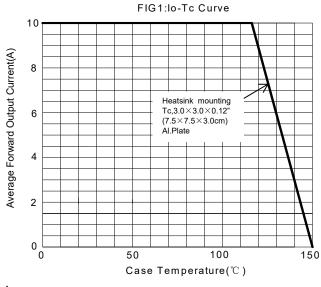


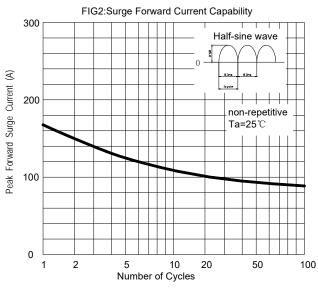
KBU10005 THRU KBU1010

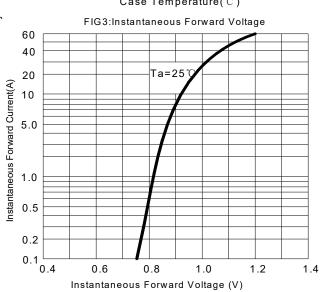
■ Ordering Information (Example)

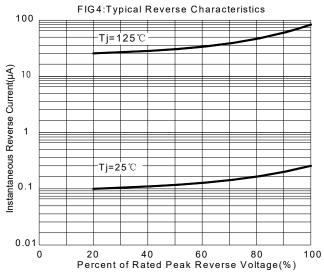
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBU10005~KBU1010	A1	Approximate 7.2	400	400	2400	Paper Box

■ Characteristics (Typical)



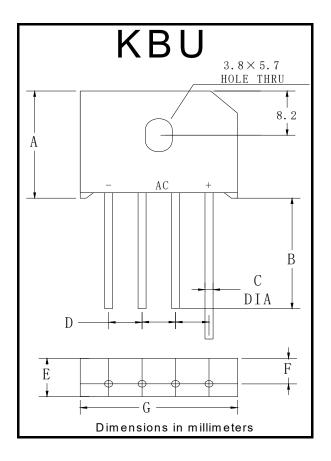








■ Outline Dimensions



KBU						
Dim	Min	Max				
Α	18.8	19.8				
В	20.0	/				
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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