

KBL6005 THRU KBL610



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



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

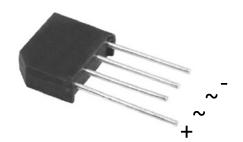
Mechanical Data

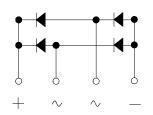
• Package: KBL

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	KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610
Device marking code			KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610
Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, Ta =40℃	lo	А	6						
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 ² t	A ² S	76						
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=3A				1.05			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

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

F	PARAMETER	SYMBOL	UNIT	KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610
Thermal	Between junction and ambient,	RθJ-A	°C/W	19 ⁽¹⁾						
Resistance	Between junction and lead	RθJ-L	CIVV				5 ⁽²⁾			

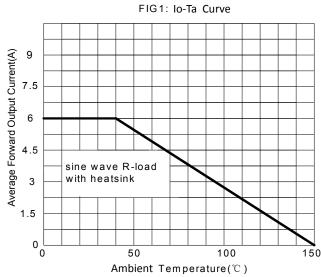
Notes

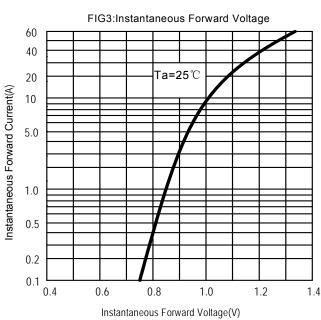
- (1) Thermal resistance from junction to ambient with units mounted on 3.0*3.0*0.11" thick(7.5*7.5*0.3cm) aluminum plate
- (2) Thermal resistance from junction to lead with units mounted on P.C.B.at 0.375"(9.5mm)lead length and 0.5*0.5"(12*12mm) copper pads

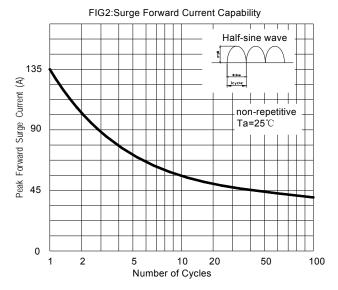
■Ordering Information (Example)

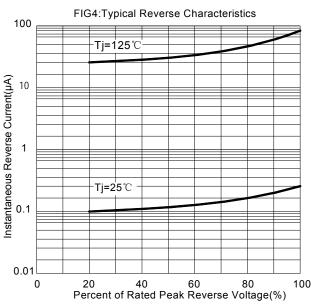
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBL6005~KBL610	A1	Approximate4.56	500	500	4000	Paper Box

■ Characteristics(Typical)





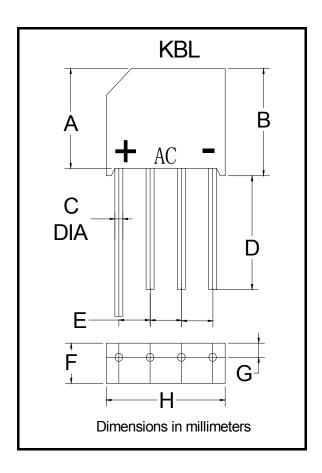








■ Outline Dimensions



KBL						
Dim	Min	Max				
Α	13.7	15.7				
В	15.2	16.3				
С	1.2	1.3				
D	16	/				
E	4.6	5.6				
F	5.5	6.5				
G	1.8	2.4				
Н	18.5	19.5				



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