

KBL4005 THRU KBL410



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.

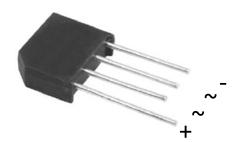
Mechanical Data

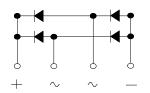
• Package: KBL

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)

- Maximum Ratings (1a 25 © Ginese Gulerwice opening)									
PARAMETER	SYMBOL	UNIT	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410
Device marking code			KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, Without heatsink $T_a = 40^{\circ}$ C	Ю	А	4						
Surge(Non-repetitive)Forward Current @60HZ half-sine wave, 1 cycle, T _a =25℃	IFSM	Α	120						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	I ² t	A ² S	59.8						
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$ C	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410
Maximum instantaneous forward voltage drop per diode	VF	>	IFM=2A				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	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410
Thermal	Between junction and ambient,	R ₀ J-A	°C/W	21 ⁽¹⁾						
Resistance	Between junction and lead	R ₀ J-L	C/VV	2.4 ⁽²⁾						

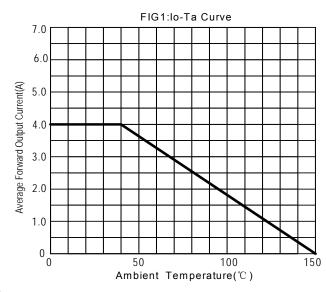
Notes

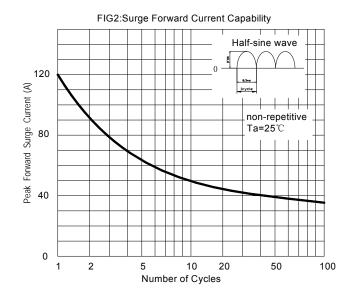
- (1) Thermal resistance from junction to ambient with units mounted on 3.0*3.0*0.11" thick(7.5*7.5*0.3cm) aluminum plate
- (2) Thermal resistance from junction to lead with units mounted on P.C.B.at 0.375"(9.5mm)lead length and 0.5*0.5"(12*12mm) copper pads

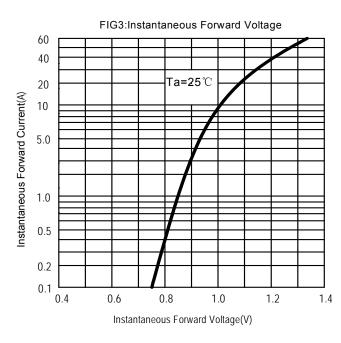
■Ordering Information (Example)

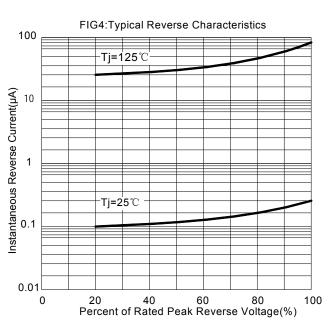
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBL4005~KBL410	A1	Approximate 4.54	500	500	4000	Paper Box

■ Characteristics(Typical)





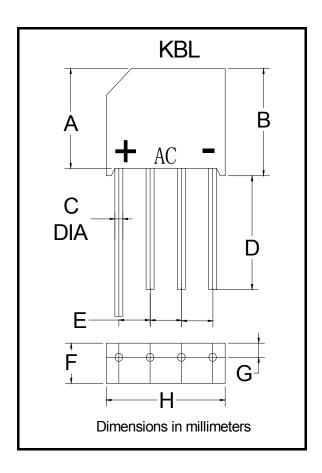








■ Outline Dimensions



KBL						
Dim	Min	Max				
Α	13.7	15.7				
В	15.2	16.3				
С	1.2	1.3				
D	16	1				
Е	4.6	5.6				
F	5.5	6.5				
G	1.8	2.4				
Н	18.5	19.5				



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