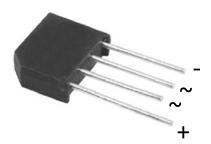
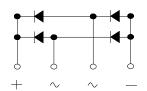




Bridge Rectifiers





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: 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	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	
Device marking code			KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000	
Maximum RMS Voltage	VRMS	٧	35	70	140	280	420	560	700	
Maximum DC blocking Voltage	VDC	٧	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load, T _C =120°C	lo	Α		4.0						
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave,1 cycle, Tj=25°C	IFON	А	120							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM		240							
Current Squared Time @1ms≤t≤8.3ms, Tj=25°C,Rating of per diode	l ² t	A ² S	59.8							
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	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410
Maximum instantaneous forward voltage drop per diode	VF	>	IFM=2.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage	IR		T _j =25℃	T _j =25°C 5						
per diode	ır.	μA	T _j =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	a 35						

KBL4005 THRU KBL410

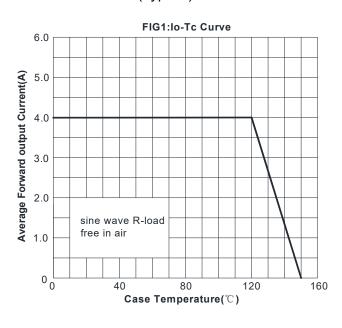
■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

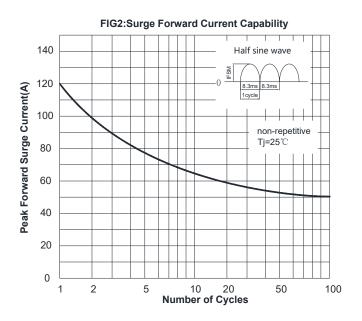
F	PARAMETER	SYMBOL	UNIT	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410
	Between junction and ambient	RøJ-A					25			
Thermal Resistance	Between junction and lead	R ₀ J-L	°C/W 13							
	Between junction and case	R ₀ J-C		3.5						

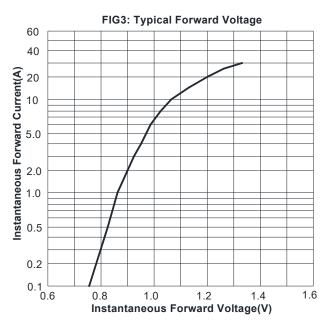
■ Ordering Information (Example)

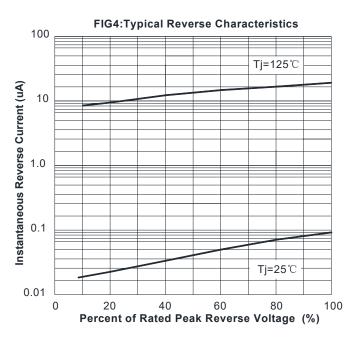
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBL4005 ~ KBL410	A1	Approximate 4.54	500	500	4000	Paper Box

■ Characteristics (Typical)





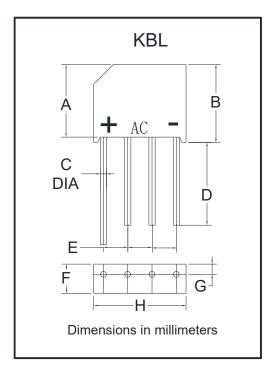






KBL4005 THRU KBL410

■ Outline Dimensions



I/DI							
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					



KBL4005 THRU KBL410

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