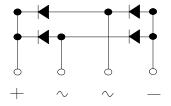


Bridge Rectifiers







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: KBP

Molding compound meets UL 94 V-0 flammability

• 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	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
Device marking code			KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
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 current @60Hz sine wave, R-load, T _C =90°C	lo	А	3						
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C	Ison	Α	60						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	- IFSM		120						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² s	15						
Storage temperature	T _{stg}	°C	-55 ~ + 150						
Junction temperature	Tj	°C	-55 ~ + 150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.5A		1.0					
Maximum DC reverse current at rated DC blocking voltage			T _j =25℃	5						
per diode	iiX	μΛ	T _j =125°C	100						
Typical junction capacitance	Cj	nF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	18						



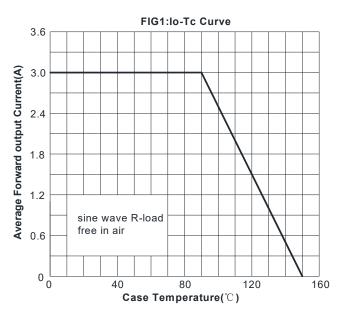
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

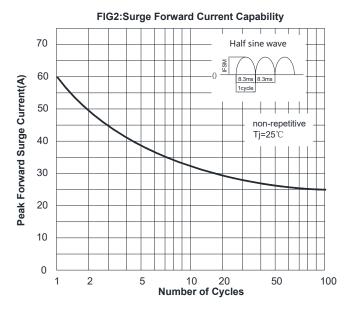
	PARAMETER	SYMBOL	UNIT	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
	Between junction and ambient	RøJ-A					30			
Thermal Resistance	Between junction and lead	R ₀ J-L	°C/W	15						
	Between junction and case	R ₀ J-C		10						

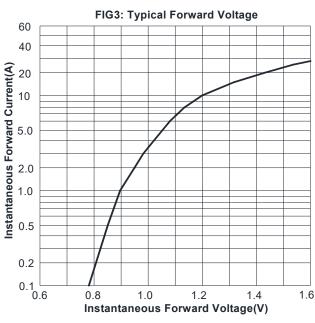
■Ordering Information (Example)

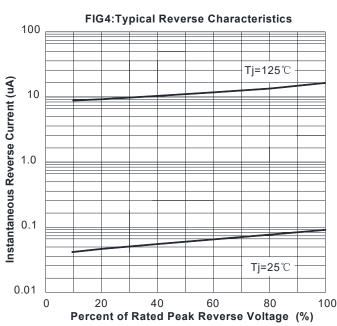
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT (g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBP3005 ~ KBP310	A1	Approximate 1.75	500	500	5000	Paper Box

■ Characteristics (Typical)



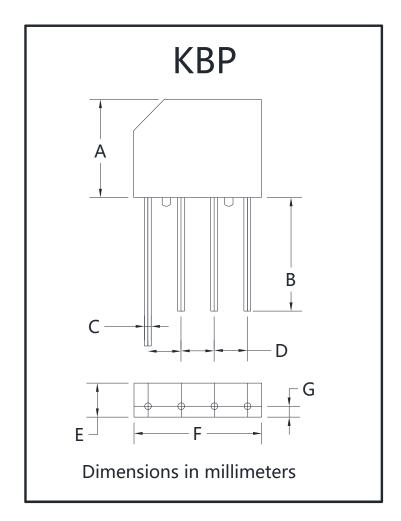








■ Outline Dimensions



КВР						
Dim	Min	Max				
Α	11.0	11.6				
В	12.7	1				
С	0.7	0.9				
D	3.6	4.1				
Е	3.7	3.95				
F	14.4	15.0				
G	1.10	1.27				



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