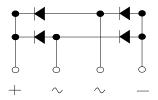




Bridge Rectifiers





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: KBP

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	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
Device marking code			KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Without heatsink Ta =30°C	lo	Α	3						
Surge(non-repetitive)forward current @60HZ half-sine wave, 1 cycle, Ta=25℃	IFSM	Α	60						
Current squared time @1ms≤t<8.3ms Tj=25℃, rating of per diode	l ² t	A ² S	14.9						
Storage temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	${\mathbb C}$	-55 ~+150						

■Electrical Characteristics (Ta=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	1.05						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

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

PARAMETER		SYMBOL	UNIT	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	
Thermal	Between junction and ambient,	RøJ-A	RθJ-A °C/W		20						
Resistance (1) Between junction and lead		R ₀ J-L	Civv	11							

Notes

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47×0.47"(12×12mm) copper pads

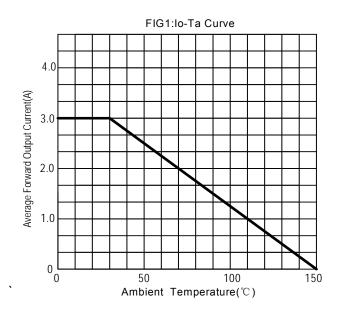


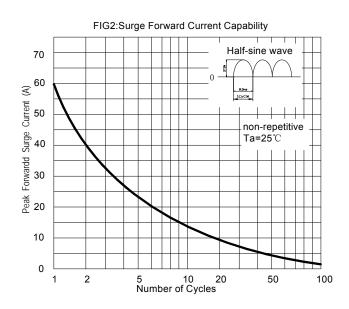
KBP3005 THRU KBP310

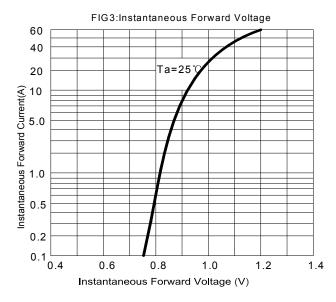
■Ordering Information (Example)

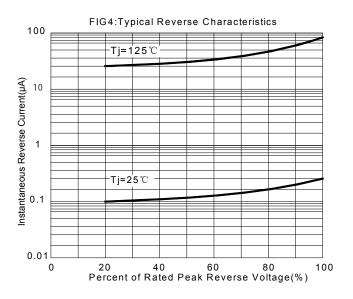
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBP3005~KBP310	A1	Approximate 1.75	500	500	5000	Paper Box

■ Characteristics (Typical)





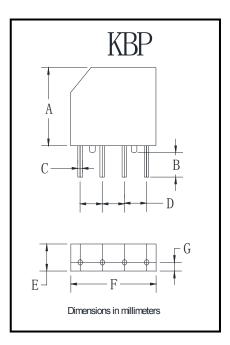






KBP3005 THRU KBP310

■ Outline Dimensions



KBP							
Dim	Min	Max					
Α	11.0	11.6					
В	3.2	3.8					
С	0.7	0.9					
D	3.6	4.1					
E	3.7	3.95					
F	14.4	15.0					
G	1.10	1.27					



KBP3005 THRU KBP310

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