





- UL recognition, file #E230084
- Suitable for printed circuit board or chassis mounti
- Compact construction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

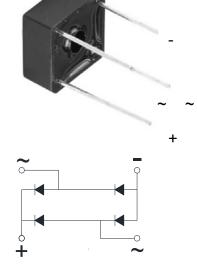
The KBPC series of single phase rectifier bridge consists of four silicon junctions connected as a full bridge. These devices are intended for general use in industrial and consumer equipment.

Mechanical Date

Package: KBPC1

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	KBPC3005	KBPC301	KBPC302	KBPC304	KBPC306	KBPC308	KBPC310
Device marking code			KBPC3005	KBPC301	KBPC302	KBPC304	KBPC306	KBPC308	KBPC310
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T _a =40℃	lo	Α	3.0						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25°C	IFSM	Α	45						
Current Squared Time @1ms≤t≤8.3ms Tj=25°C,Rating of per diode	l ² t	A ² S	8.5						
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	KBPC3005	KBPC301	KBPC302	KBPC304	KBPC306	KBPC308	KBPC310
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=1.5A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM				10			

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

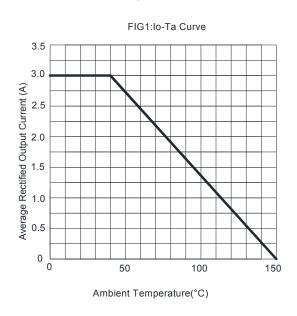
PA	ARAMETER	SYMBOL	UNIT	KBPC3005	KBPC301	KBPC302	KBPC304	KBPC306	KBPC308	KBPC310
Thermal Resistance	Between junction and ambient	R ₀ J-A	°C/W				35			

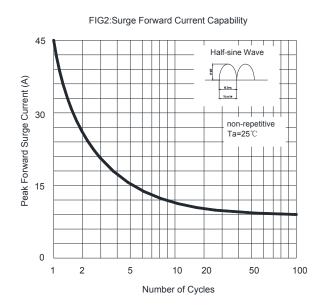


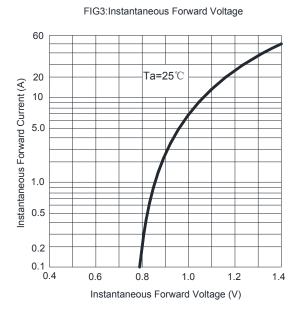
■Ordering Information (Example)

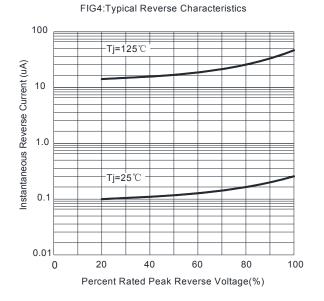
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBPC3005~KBPC310	A1	Approximate 2.5	200	200	2000	Paper Box

■ Characteristics (Typical)



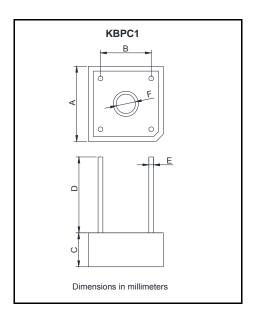








■ Outline Dimensions



KBPC1							
Dim	Min	Max					
А	14.7	15.7					
В	10.3	11.3					
С	6.35	7.6					
D	15.0	1					
E	0.72	0.80					
F	3.60	4.0					



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