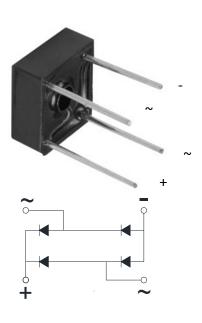
KBPC8005 THRU KBPC810



Bridge Rectifiers

- FeaturesUL recognition, file #E230084
- Suitable for printed circuit board or chassis mounting
- 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: KBPC8 Molding compound meets UL 94 V-0 formability action, Del IC compliant.
- 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	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Device marking code			KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
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°C	IO	А	8						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25°C	IFSM	А	150						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	93						
Storage Temperature	Tstg	°C	-55 ~+150						
Junction Temperature	Тј	°C	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I _{FM} =4A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}				10			

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

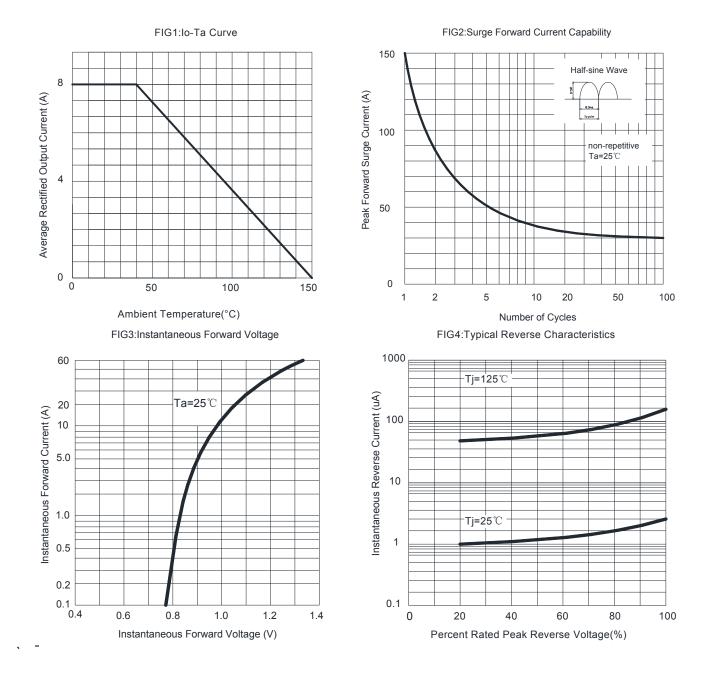
PA	RAMETER	SYMBOL	UNIT	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Thermal Resistance	Between junction and ambient	RθJ-A	°C/W				21			



Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBPC8005~KBPC810	A1	Approximate 4.75	200	200	2000	Paper Box

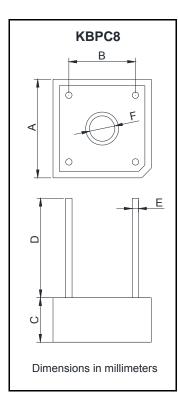
Characteristics (Typical)



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Outline Dimensions



KBPC8						
Dim	Min	Max				
Α	18.54	19.58				
В	12.2	13.2				
С	6.35	7.6				
D	15.0	/				
E	1.2	1.3				
F	3.8	4.2				

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KBPC8005 THRU KBPC810

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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