KBPC10005 THRU KBPC1010

Bridge RectifiersFeatures



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

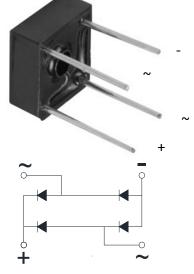
Mechanical Date

• Package: KBPC8

Molding compound meets UL 94 V-0 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)

= maximum (aunigs (14 = 2 = 2 mose care mose specimes)									
PARAMETER	SYMBOL	UNIT	KBPC10005	KBPC1001	KBPC1002	KBPC1004	KBPC1006	KBPC1008	KBPC1010
Device marking code			KBPC10005	KBPC1001	KBPC1002	KBPC1004	KBPC1006	KBPC1008	KBPC1010
Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T _a =40 °C	lo	Α	10						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T _a =25°C	IFSM	Α	180						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	135						
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC10005	KBPC1001	KBPC1002	KBPC1004	KBPC1006	KBPC1008	KBPC1010
Maximum instantaneous forward voltage drop per diode	V	٧	I _{FM} =5A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	· I _{RRM}	μA	$V_{RM} = V_{RRM}$				10			

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

P.	ARAMETER	SYMBOL	UNIT	KBPC10005	KBPC1001	KBPC1002	KBPC1004	KBPC1006	KBPC1008	KBPC1010
Thermal Resistance	Between junction and ambient	R ₀ J-A	°C/W				5			

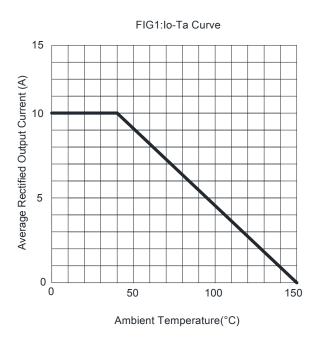
KBPC10005 THRU KBPC1010

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
KBPC10005~KBPC1010	A1	Approximate 4.75	200	200	2000	Paper Box	

180

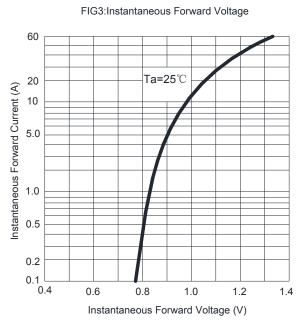
■ Characteristics (Typical)

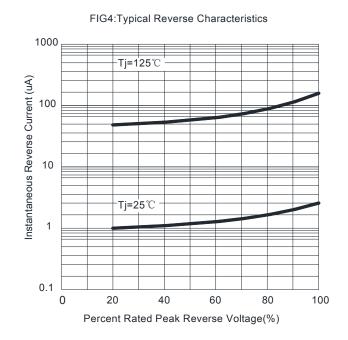


Half-sine Wave

| Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-sine Wave | Half-

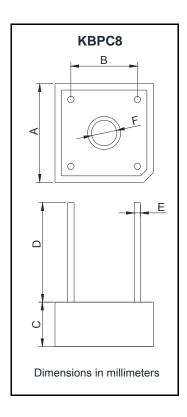
FIG2:Surge Forward Current Capability





KBPC10005 THRU KBPC1010

■ Outline Dimensions



KBPC8						
Dim	Min	Max				
Α	18.54	19.58				
В	12.2	13.2				
С	6.35	7.6				
D	15.0	1				
E	1.2	1.3				
F	3.8	4.2				

ŊĠ

KBPC10005 THRU KBPC1010

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http://www.21yangjie.com, or consult your nearest Yangjie's sales office for further assistance.