

KBPC8005 thru KBPC810

GOOD-ARK Electronics

Bridge Rectifiers

Features

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

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 Data

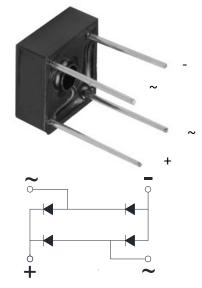
• Package: KBPC8

Molding compound meets UL 94 V-0 flammability rating,RoHS- compliant

- Terminals : Tin plated leads, solderable per J-STD-002 and JESD22-B102 Suffix letter "W" added
- Polarity: As marked on body

Maximum Ratings (TA=25°C unless otherwise noted)									
Parameter	Symbol	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	Unit
Device marking code		KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @60Hz sine Wave, R-load, With heatsink Tc=40°C	Io	I _O 8					А		
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃	I _{FSM} 150					А			
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	I _{2t}	93				A ² S			
Storage Temperature	Tstg	-55 ~+150				°C			
Junction Temperature	TJ	T55 ~+150				°C			







KBPC8005 thru KBPC810 GOOD-ARK Electronics

Electrical Characteristics (TA=25°C unless otherwise noted)										
Parameter	Symbol	Test Conditions	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	Unit
Maximum instantaneous forward voltage drop per diode	V _{FM}	IFM=4A				1.1				V
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	V _{RM} =V _{RRM}				10				μA

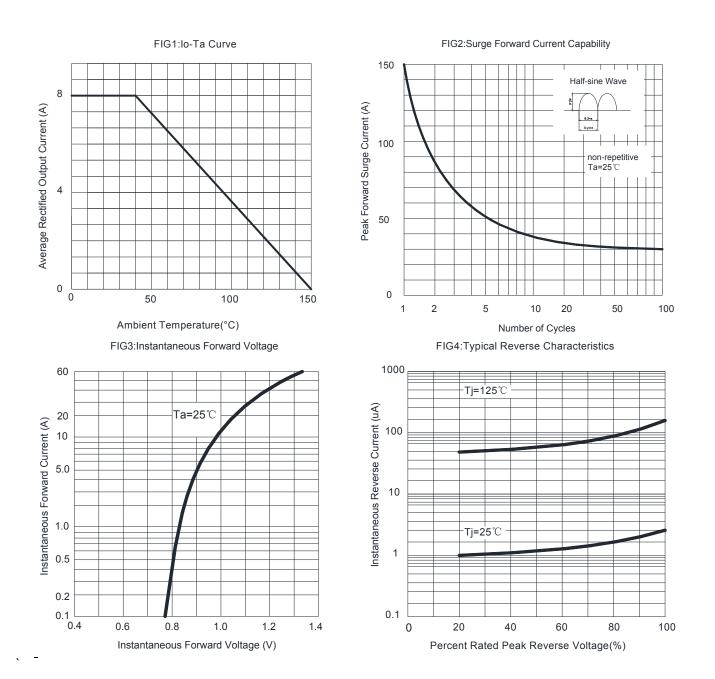
Thermal Characteristics (TA=25°C unless otherwise noted)										
Parameter	-	Symbol	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	Unit
Thermal Resistance	Maximum instantaneous forwardvoltage drop per diode	R _{0J-A}				21				°C/W



KBPC8005 thru KBPC810 GOOD-ARK Electronics

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

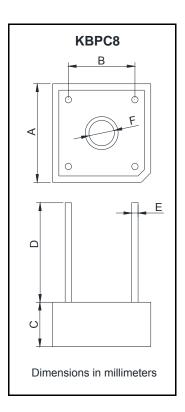




KBPC8005 thru KBPC810 GOOD-ARK Electronics

Package Outline Dimensions

in inches (millimeters)



KBPC8						
Dim	Min	Max				
А	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				

Revision History

Document Version	Date of release	Description of changes
Rev.A	2014.04.28	First issue



KBPC8005 thru KBPC810

GOOD-ARK Electronics

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.