KBPC8005 THRU KBPC810

Bridge Rectifiers

Features

- UL 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

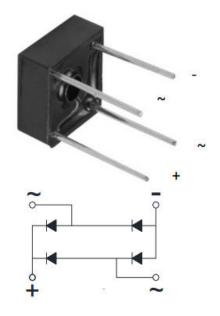
• Package: KBPC8

Molding compound meets UL 94 V-0 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	٧	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T _a =40℃	Ю	Α	8						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃	IFSM	Α	150						
Current Squared Time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² S	93						
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	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Maximum instantaneous forward voltage drop per diode	V	٧	I _{FM} =4A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	l _{RRM}	μΑ	$V_{RM} = V_{RRM}$				10			

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

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

KBPC8005 THRU KBPC810

■ 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)

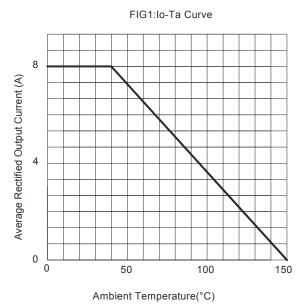


FIG3:Instantaneous Forward Voltage

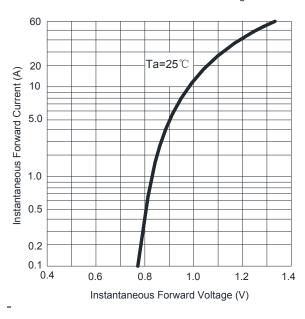


FIG2:Surge Forward Current Capability

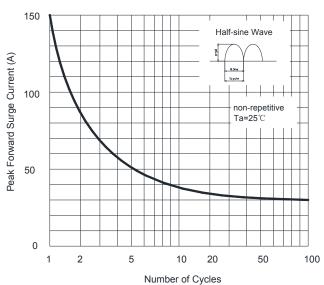
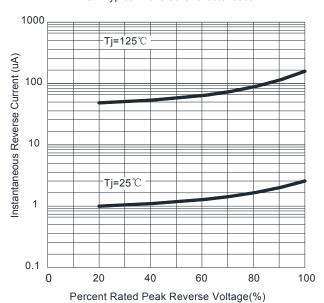
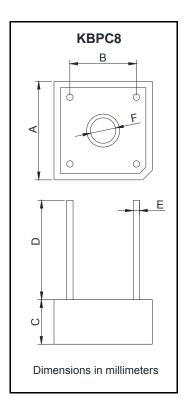


FIG4:Typical Reverse Characteristics





■ 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				
Е	1.2	1.3				
F	3.8	4.2				



Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Steifpower Technology products best suited to the customer's applications, they do not convey any license under any intellectual property rights, or any other rights, belonging to Steifpower Technology or third party. Steifpower Technology 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 Steifpower Technology without notice due to product improvements or other reasons.

It is therefore recommended that customers contact Steifpower Technology or unauthorized Steifpower Technology for the latest product information before purchasing a productlisted herein.

The information described here may containtechnical inaccuracies or typographicalerrors.

Steifpower Technology assumes no responsibility for any damage, liability, or other loss rising from theseinaccuracies or errors.

Please also pay attention to information published by Steifpower Technologyby various means including our website home page (http://www.steifpower.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.

Steifpower Technology assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Steifpower Technology is necessary to reprint or reproduce in whole or in part these materials.

Please contact Steifpower Technology or an authorized distributor for further details on these materials or the products contained herein.