

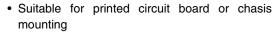
Vishay High Power Products

Single Phase Rectifier Bridge, 8 A



PRODUCT SUMMARY		
I _{O(av)}	8.0 A	
V _{RRM}	50 to 1000 V	

FEATURES





- · Compact construction
- High surge current capability
- · Fully characterised data
- Wide temperature range
- · RoHS compliant

DESCRIPTION

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

MAJOR RATINGS AND CHARACTERISTICS				
SYMBOL	CHARACTERISTICS	VALUES	UNITS	
1	T _C = 50 °C, resistive load	8	А	
10	T _C = 50 °C, capacitive load	6.4		
I _{FSM}	50 Hz	125	А	
	60 Hz	137		
l ² t	50 Hz	110	A ² s	
1-1	60 Hz	100	A-S	
V _{RRM}	Range	50 to 1000	V	
T _J		- 55 to 150	°C	

ELECTRICAL SPECIFICATIONS

VOLTAGE RATINGS				
PART NUMBER	V _{RRM} , MAXIMUM REPETITIVE PEAK REVERSE VOLTAGE V	V _{RSM} , MAXIMUM NON-REPETITIVE PEAK REVERSE VOLTAGE V		
KBPC8005	50	80		
KBPC801	100	150		
KBPC802	200	300		
KBPC804	400	500		
KBPC806	600	700		
KBPC808	800	900		
KBPC810	1000	1100		

Vishay High Power Products

Single Phase Rectifier Bridge, 8 A



FORWARD CONDUCTION					
PARAMETER	SYMBOL	TEST C	CONDITIONS	VALUES	UNITS
Maximum DC autaut augrant		T _C = 50 °C, resistive or inductive load		8.0	
Maximum DC output current	I _O	T _C = 50 °C, capacitive load		6.4	
Maximum peak one cycle, non-repetitive surge current	I _{FSM}	t = 10 ms, 20 ms	Following any rated load condition and with rated V _{RRM} reapllied	125	А
		t = 8.3 ms, 16.7 ms		137	
Maximum I ² t capability for fusing	l ² t	t = 10 ms	Initial T _J = T _J maximum 100 % V _{RRM} reapplied	78	A ² s
		t = 8.3 ms		71	
		t = 10 ms		110	
		t = 8.3 ms		1000	
Maximum I ² √t capability for fusing	I ² √t	t = 0.1 to 10 ms, no voltage reapplied		1105	A ² √s
Maximum peak forward voltage per diode	V_{FM}	I _{FM} = 3.0 A, T _J = 25 °C		1.0	V
		T _J = 25 °C, 100 % V _{RRM}		10	mA
Typical peak reverse leakage per diode	T _J = 150 °C, 10		V_{RRM}	100	
Operating frequency range	f			400 to 1000	Hz
Maximum repetitive peak reverse voltage range	V _{RRM}			50 to 1000	V

THERMAL AND MECHANICAL SPECIFICATIONS			
PARAMETER	SYMBOL	VALUES	UNITS
Operating and storage temperature range	T _J , T _{Stg}	- 55 to 150	°C
Thermal resistance, junction to case	R _{thJC}	6	K/W
Approximate weight		6	g
Approximate weight		0.21	OZ.

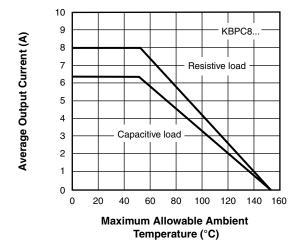


Fig. 1 - Current Ratings

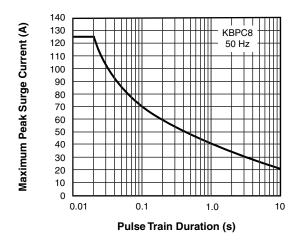


Fig. 2 - Non-Repetitive Surge Ratings

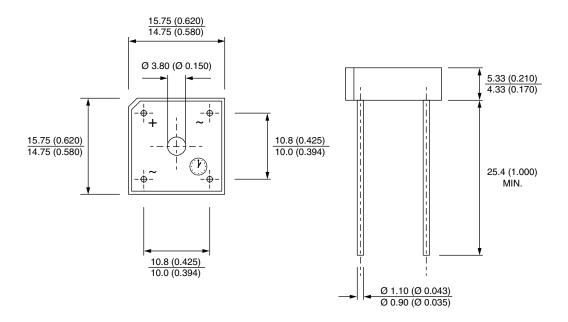
LINKS TO RELATED DOCUMENTS		
Dimensions	http://www.vishay.com/doc?95250	



Vishay Semiconductors

D-72

DIMENSIONS in millimeters (inches)





Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

Revision: 02-Oct-12 Document Number: 91000

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for vishay manufacturer:

Other Similar products are found below:

M39006/22-0577H Y00892K49000BR13L VS-12CWQ10FNPBF M8340109M6801GGD03 VS-MBRB1545CTPBF 1KAB100E

CRCW1210360RFKEA VSMF4720-GS08 CRCW04024021FRT7 001789X LT0050FR0500JTE3 CRCW0805348RFKEA

LVR10R0200FE03 CRCW12063K30FKEAHP 009923A CRCW2010331JR02 CRCW25128K06FKEG CS6600552K000B8768 M39003/01
2289 M39003/01-2784 M39006/25-0133 M39006/25-0228 M64W101KB40 M64Z501KB40 CW001R5000JS73 CW0055R000JE12

CW0056K800JB12 CW0106K000JE73 672D826H075EK5C CWR06JC105KC CWR06NC475JC MAL219699001E3

MCRL007035R00JHB00 PTF56100K00QYEK PTN0805H1502BBTR1K RCL12252K20JNEG RCWL1210R130JNEA RH005220R0FE02

RH005330R0FC02 RH010R0500FC02 132B20103 RH1007R000FJ01 RH2503R500FE01 RH254R220FS03 RH-50-40R2-1%-C02

134D336X9075C6 132B00301 135D277X0025F6 DG202BDY-T1-E3 DG9426EDO-T1-GE3