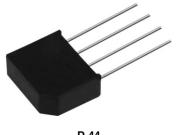


Vishay High Power Products

Single Phase Rectifier Bridge, 2 A



υ	-4	4

PRODUCT SUMMARY				
Io	2 A			
V_{RRM}	50 to 1000 V			

FEATURES





- · Compact construction
- High surge current capability
- · RoHS compliant

DESCRIPTION

A 2 A single phase encapsulated bridge rectifier consisting of four single diodes connected as a full bridge. They are intended for general applications in industrial and consumer equipment.

MAJOR RATINGS AND CHARACTERISTICS				
SYMBOL	CHARACTERISTICS	VALUES	UNITS	
Io		2.0	A	
1	50 Hz	60	Δ.	
I _{FSM}	60 Hz	63	Α	
l ² t	50 Hz	18	A ² s	
	60 Hz	16	A-5	
V _{RRM}		50 to 1000	V	
T _J		- 40 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)	V _{RMS} , MAXIMUM RECOMMENDED RMS SUPPLY VOLTAGE (V)	
2KBP005	50	50	20	
2KBP02	200	200	80	
2KBP04	400	400	125	
2KBP06	600	600	250	
2KBP08	800	800	380	
2KBP10	1000	1000	500	

Document Number: 93562 Revision: 17-Jun-08

Vishay High Power Products

Single Phase Rectifier Bridge, 2 A



FORWARD CONDUCTION						
PARAMETER	SYMBOL	TEST CONDITIONS		VALUES	UNITS	
Maximum DC autaut aurrant		T _A = 50 °C, resistive or inductive load		2.0	А	
Maximum DC output current	I _O	T _A = 50 °C, capacitive load		1.8		
Maximum peak one cycle,		t = 10 ms, 20 ms	Following any		60	
non-repetitive surge current	I _{FSM}	t = 8.3 ms, 16.7 ms	condition and with rated V _{RRM} reapplied		63	A
Maximum I ² t capability for fusing	l ² t	t = 10 ms	100 % V _{RRM}	Initial T _J = 16 16 26 23	18	A ² s
		t = 8.3 ms	reapplied		16	
		t = 10 ms	No voltage		26	
		t = 8.3 ms	reapplied			
Maximum I²√t capability for fusing	I²√t	t = 0.1 to 10 ms, no voltage reapplied		255	A²√s	
Maximum peak forward voltage per diode	V_{FM}	I _{FM} = 1 A, T _J = 25 °C		1.0	٧	
Typical peak reverse leakage		T _J = 25 °C, 100 % V _{RRM}		10	μΑ	
current per diode	I _{RM}	T _J = 150 °C, 100 % V _{RRM}		1.0	mA	
Operating frequency range	f			40 to 1000	Hz	

THERMAL AND MECHANICAL SPECIFICATIONS				
PARAMETER	SYMBOL	VALUES	UNITS	
Operating junction and storage temperature range	T _J , T _{Stg}	- 40 to 150	°C	
Approximate weight		4	g	
Approximate weight		0.14	OZ.	

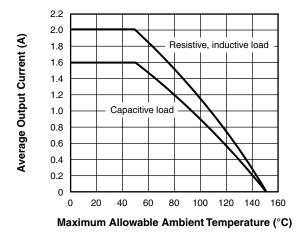


Fig. 1 - Ambient Temperature Ratings

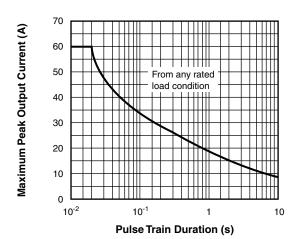


Fig. 2 - Non-Repetitive Surge Ratings

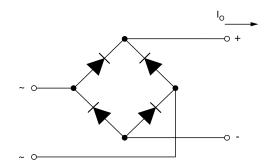




Single Phase Rectifier Bridge, 2 A

Vishay High Power Products

CIRCUIT CONFIGURATION



LINKS TO RELATED DOCUMENTS		
Dimensions	http://www.vishay.com/doc?95329	

Document Number: 93562 Revision: 17-Jun-08



Vishay

Disclaimer

All product specifications and data are subject to change without notice.

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 herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

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.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Document Number: 91000 Revision: 18-Jul-08

www.vishay.com