

# Single Phase Rectifier Bridge, 2 A



PRODUCT SUMMARY		
lo	2 A	

 $V_{\text{RRM}}$ 

50 to 1000 V

### FEATURES

- Suitable for printed circuit board mounting
- 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	
I <sub>O</sub>		2.0	A	
	50 Hz	60		
IFSM	60 Hz	63	A	
l <sup>2</sup> t	50 Hz	18	A <sup>2</sup> s	
1-1	60 Hz	16	A-5	
V <sub>RRM</sub>		50 to 1000	V	
TJ		- 40 to 150	°C	

### **ELECTRICAL SPECIFICATIONS**

VOLTAGE RATINGS				
PART NUMBER	V <sub>RRM</sub> , MAXIMUM REPETITIVE PEAK REVERSE VOLTAGE (V)	V <sub>RSM</sub> , MAXIMUM NON-REPETITIVE PEAK REVERSE VOLTAGE (V)	V <sub>RMS</sub> , 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	





# **2KBP Series**

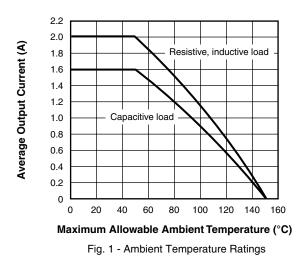
### Vishay High Power Products

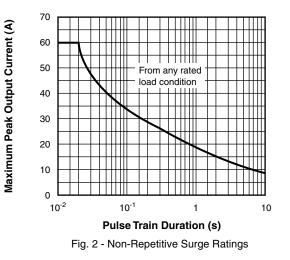
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FORWARD CONDUCTION						
PARAMETER	SYMBOL	TEST CONDITIONS		VALUES	UNITS	
Marine DO antest second	Ι <sub>Ο</sub>	$T_A = 50$ °C, resistive or inductive load		2.0	А	
Maximum DC output current		T <sub>A</sub> = 50 °C, capacitive load		1.8		
Maximum peak one cycle,		t = 10 ms, 20 ms	Following any		60	
non-repetitive surge current	I <sub>FSM</sub>	t = 8.3 ms, 16.7 ms	condition and with rated V <sub>RRM</sub> reapplied		63	A
Maximum I <sup>2</sup> t capability for fusing	l <sup>2</sup> t	t = 10 ms	100 % V <sub>RRM</sub>	Initial T <sub>J</sub> = T <sub>J</sub> maximum	18	A <sup>2</sup> s
		t = 8.3 ms	reapplied		16	
		t = 10 ms	No voltage		26	
		t = 8.3 ms	reapplied		23	
Maximum $I^2 \sqrt{t}$ capability for fusing	l²√t	t = 0.1 to 10 ms, no voltage reapplied		255	A²√s	
Maximum peak forward voltage per diode	$V_{FM}$	I <sub>FM</sub> = 1 A, T <sub>J</sub> = 25 °C		1.0	V	
Typical peak reverse leakage		T <sub>J</sub> = 25 °C, 100 % V <sub>RRM</sub>		10	μΑ	
current per diode		T <sub>J</sub> = 150 °C, 100 % V <sub>RRM</sub>			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 <sub>J</sub> , T <sub>Stg</sub>	- 40 to 150	°C	
Annrovimate weight		4	g	
Approximate weight		0.14	OZ.	





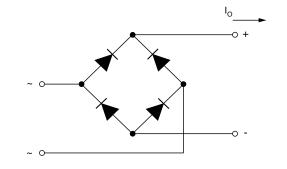


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### **CIRCUIT CONFIGURATION**



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



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