

Single Phase Rectifier Bridge, 2 A



PRODUCT SUMMARY		
lo	2 A	

 V_{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 _O		2.0	A	
	50 Hz	60		
IFSM	60 Hz	63	A	
l ² t	50 Hz	18	A ² s	
1-1	60 Hz	16	A-5	
V _{RRM}		50 to 1000	V	
TJ		- 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	





2KBP Series

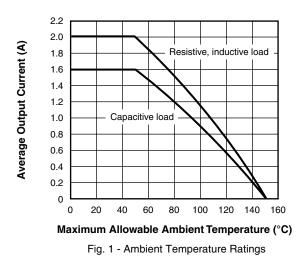
Vishay High Power Products

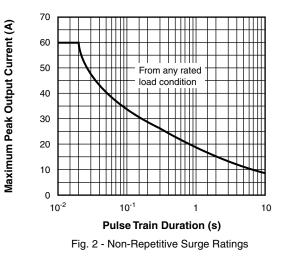
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FORWARD CONDUCTION						
PARAMETER	SYMBOL	TEST CONDITIONS		VALUES	UNITS	
Marine DO antest second	Ι _Ο	$T_A = 50$ °C, resistive or inductive load		2.0	А	
Maximum DC output current		T _A = 50 °C, capacitive load		1.8		
Maximum peak one cycle,		t = 10 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 = T _J maximum	18	A ² 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 _{FM} = 1 A, T _J = 25 °C		1.0	V	
Typical peak reverse leakage		T _J = 25 °C, 100 % V _{RRM}		10	μΑ	
current per diode		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	
Annrovimate weight		4	g	
Approximate weight		0.14	OZ.	





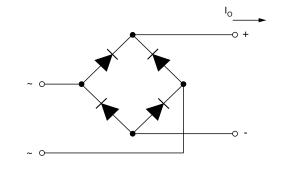


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CIRCUIT CONFIGURATION



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



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