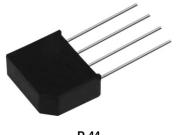


Vishay High Power Products

Single Phase Rectifier Bridge, 2 A



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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	
	50 Hz	60		
I _{FSM}	60 Hz	63	Α	
121	50 Hz	18	A ² s	
l ² t	60 Hz	16	A-S	
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	

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FORWARD CONDUCTION						
PARAMETER	SYMBOL	TEST CONDITIONS			VALUES	UNITS
Manifester DC autout account	Io	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 rated load condition and with rated V _{RRM} reapplied		60	А
non-repetitive surge current	I _{FSM}	t = 8.3 ms, 16.7 ms			63	
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 √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	V	
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.	

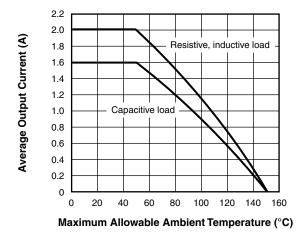


Fig. 1 - Ambient Temperature Ratings

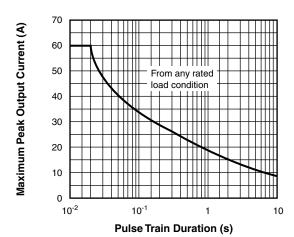


Fig. 2 - Non-Repetitive Surge Ratings

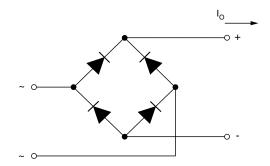




Single Phase Rectifier Bridge, 2 A

Vishay High Power Products

CIRCUIT CONFIGURATION



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

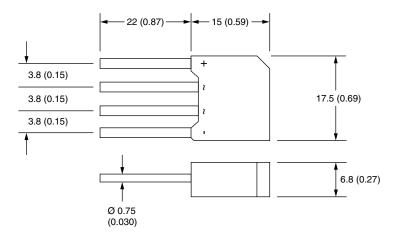
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Vishay Semiconductors

D-44

DIMENSIONS in millimeters (inches)







Vishay

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