

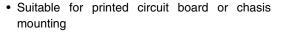
Vishay High Power Products

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		
l ₀	T _C = 50 °C, capacitive load	6.4	A	
I _{FSM}	50 Hz	125	Α	
	60 Hz	137		
l ² t	50 Hz	110	A ² s	
	60 Hz	100	A ² 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		

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FORWARD CONDUCTION					
PARAMETER	SYMBOL	TEST C	CONDITIONS	VALUES	UNITS
Maximum DC autaut auwant	Io	T _C = 50 °C, resistive or inductive load		8.0	
Maximum DC output current		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	I _{RM}	T _J = 150 °C, 100 % 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.

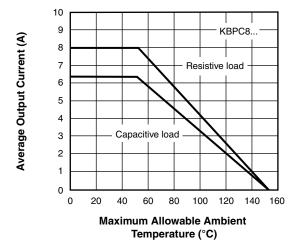


Fig. 1 - Current Ratings

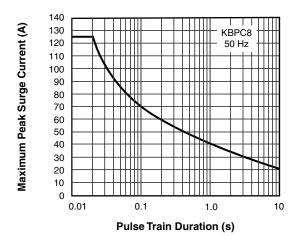


Fig. 2 - Non-Repetitive Surge Ratings

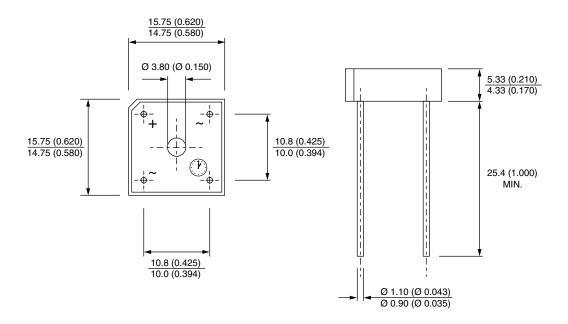
LINKS TO RELATED DOCUMENTS		
Dimensions	http://www.vishay.com/doc?95250	



Vishay Semiconductors

D-72

DIMENSIONS in millimeters (inches)





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Vishay

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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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