Vishay High Power Products

# Single Phase Rectifier Bridge, 1.9 A



PRODUCT SUMMARY		
Ι <sub>Ο</sub>	1.9 A	
V <sub>RRM</sub>	100 to 1000 V	

### FEATURES

- Suitable for printed circuit board mounting
- Leads on standard 2.54 mm (0.1") grid
- Compact construction
- High surge current capability
- Polarized package
- Equivalent to standard DIN parts
- RoHS compliant

### DESCRIPTION

A 1.9 A single phase diode bridge rectifier assembly consisting of four silicon diodes in a plastic encapsulation, intended for general applications in industrial and consumer equipment.

MAJOR RATINGS AND CHARACTERISTICS				
SYMBOL	CHARACTERISTICS	VALUES	UNITS	
lo		1.9	А	
I <sub>FSM</sub>	50 Hz	50	٨	
	60 Hz	52	A	
l <sup>2</sup> t	50 Hz	17.7	A <sup>2</sup> s	
	60 Hz	16.1	A-5	
V <sub>RRM</sub>		100 to 1000	V	
TJ		- 40 to 150	°C	

### **ELECTRICAL SPECIFICATIONS**

VOLTAGE RATINGS AND APPLICATION DATA								
CROSS R	EFERENCE			I <sub>RM</sub>		APPLICATION DATA (SEE FIGURE 3)		
PART NUMBER	DIN CODE	MAXIMUM PEAK REVERSE VOLTAGE $T_J = 15 \ ^{\circ}C$	VERSE VOLTAGE T <sub>J</sub> = 15 °C (μA)		V <sub>RMS</sub> MAXIMUM RECOMMENDED AC SUPPLY VOLTAGE	C <sub>MAX</sub> MAXIMUM LOAD CAPACITANCE	R <sub>MIN</sub> MINIMUM SOURCE RESISTANCE	
		(V)	T <sub>J</sub> = 25 °C	T <sub>J</sub> = 150 °C	(V)	(µF)	<b>(</b> Ω <b>)</b>	
2KBB05	B20C1500	50	10	500	20	7000	0.3	
2KBB10	B40C1500	100	10	500	40	5000	0.5	
2KBB20	B80C1500	200	10	500	80	3300	0.8	
2KBB40	B125C1500	400	10	500	125	1600	1.5	
2KBB60	B250C1500	600	10	500	250	1200	2.5	
2KBB80	B380C1500	800	10	500	380	800	3.0	
2KBB100	B500C1500	1000	10	500	500	600	5.0	

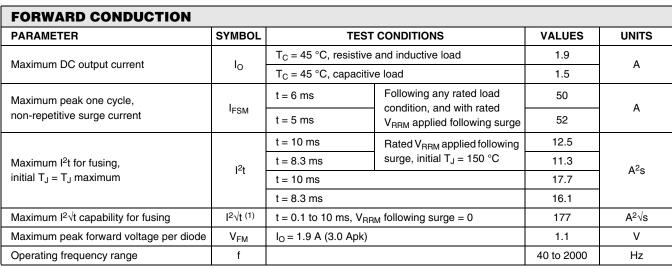
#### Note

• For PIN configuration - ~ ~ + add "R" to end of part number, e.g. 2KBB05R (see also dimensions for details - link at the end of datasheet)

# **2KBB Series**

## Vishay High Power Products

## Single Phase Rectifier Bridge, 1.9 A

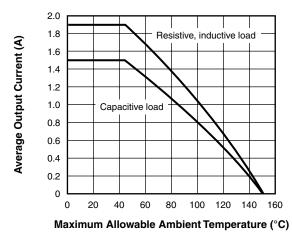


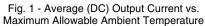
#### Note

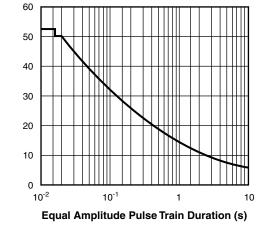
<sup>(1)</sup> I<sup>2</sup>t for time  $t_x = I^2 \sqrt{t} \cdot \sqrt{t_x}$ 

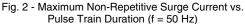
THERMAL AND MECHANICAL SPECIFICATIONS			
PARAMETER	SYMBOL	VALUES	UNITS
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>Stg</sub>	- 40 to 150	°C
Approximate weight		4	g
Approximate weight		0.14	0Z.

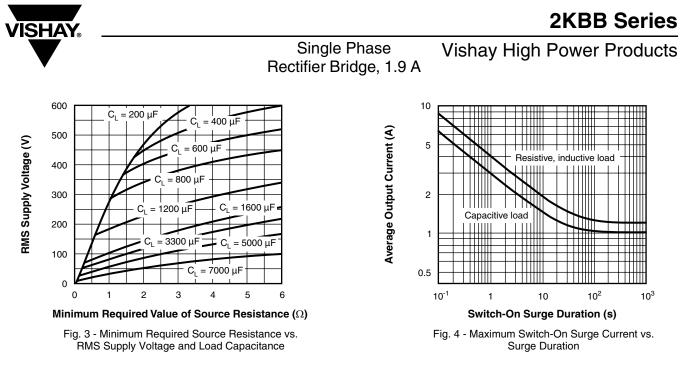
Maximum Peak Output Current (A)



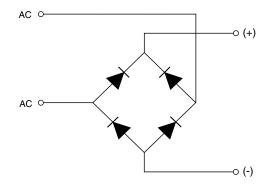








### **CIRCUIT CONFIGURATION**



LINKS TO RELATED DOCUMENTS		
Dimensions	http://www.vishay.com/doc?95328	

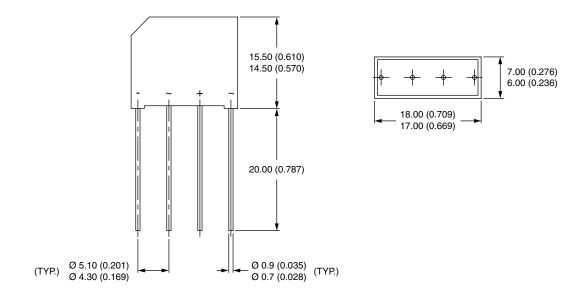


# **Outline Dimensions**

Vishay Semiconductors

2KBB

### **DIMENSIONS** in millimeters (inches)



#### Note

• For PIN configuration - ~ ~ + add "R" to end of part number



Vishay

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