

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Bulletin E2733 rev. D

International Rectifier

2KBB SERIES 1.9A single phase rectifier bridge

Maximum Ratings and Characteristics

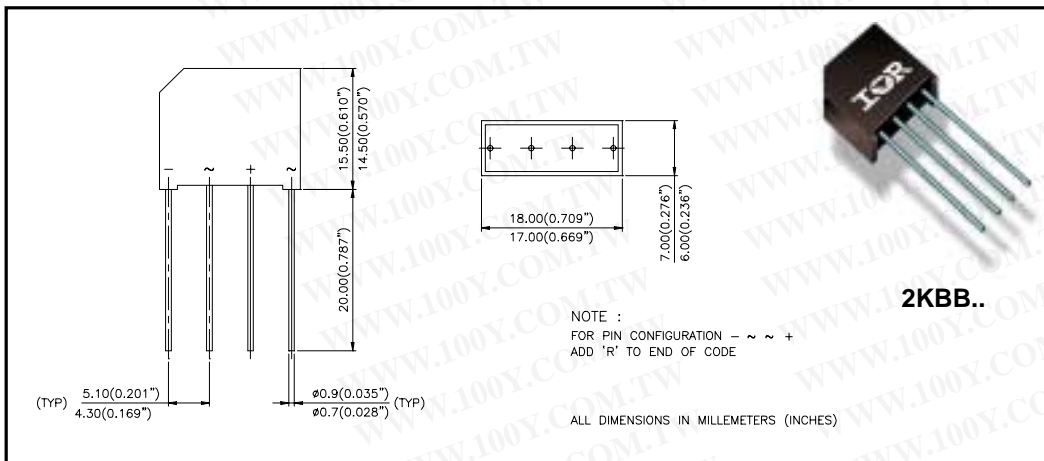
	2KBB..	Units
I_O	1.9	A
I_{FSM}	50Hz	50
	60Hz	52
I^2t	50Hz	17.7
	60Hz	16.1
V_{RRM}	100 to 1000	V
T_J	-40 to 150	°C

Description/Features

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

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

Part number	DIN code equivalent
2KBB05	B20C1500
2KBB10	B40C1500
2KBB20	B80C1500
2KBB40	B125C1500
2KBB60	B250C1500
2KBB80	B380C1500
2KBB100	B500C1500



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Reverse voltage ratings and application data

Part number	V _{RRM} , V _{RSM} max. peak rev. voltage T _J = 15°C	I _{RM} , typical peak rev. current per diode at rated V _{RRM} T _J = 150°C		Application data (see figure 3)		
		V	μA	μA	V _{RSM} max. recommended AC supply voltage	C _{max} max. load capacitance
	V				μF	Ω
2KBB05, 2KBB05R	50	10	500	20	7000	0.3
2KBB10, 2KBB10R	100	10	500	40	5000	0.5
2KBB20, 2KBB20R	200	10	500	80	3300	0.8
2KBB40, 2KBB40R	400	10	500	125	1600	1.5
2KBB60, 2KBB60R	600	10	500	250	1200	2.5
2KBB80, 2KBB80R	800	10	500	380	800	3.0
2KBB100, 2KBB100R	1000	10	500	500	600	5.0

Electrical Specification

Forward Conduction

Parameters	2KBB...	Unit	Conditions
I _O Maximum DC output current	1.9	A	T _C = 45°C, Resistive & inductive load
	1.5		T _C = 45°C, Capacitive load
I _{FSM} Maximum peak, one-cycle non-repetitive surge current,	50		t = 6ms Following any rated load condition, and with rated V _{RRM} applied following surge
	52		t = 5ms
I ² t Maximum I ² t for fusing, initial T _J = T _J max	12.5	A ² s	t = 10ms Rated V _{RRM} applied following surge, initial T _J = 150°C
	11.3	A ² s	t = 8.3ms
	17.7		
	16.1		
I ² √t Maximum I ² √t capability for fusing	177	A ² √s	V _{RRM} following surge = 0, t = 0.1 to 10 ms I ² t for time t _x = I ₂ √t _x
V _{FM} Maximum peak forward voltage per diode	1.1	V	I _O = 1.9A (3.0 A pk)
f Operating frequency range	40 to 2000	Hz	

Thermal and Mechanical Specifications

Parameters	2KBB...	Unit	Conditions
T _J Operating and storage temperature range	-40 to 150	°C	
T _{stg}			
Wt Approximate weight	4 (0.14)	g (oz)	

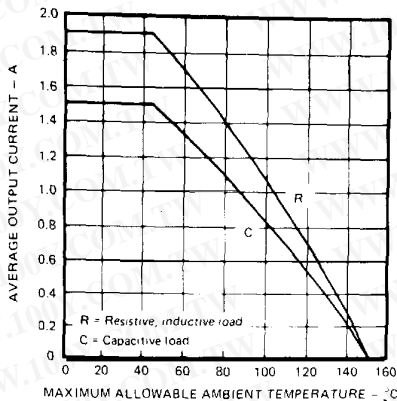


Fig. 1 – Average (DC) Output Current Vs. Maximum Allowable Ambient Temperature

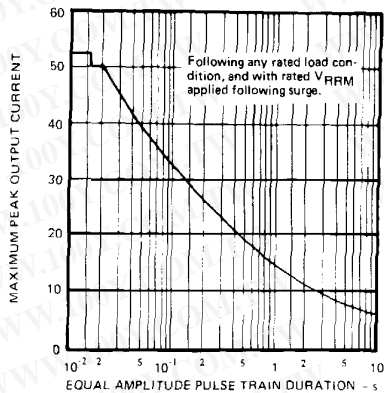


Fig. 2 – Maximum Non-repetitive Surge Current Vs. Pulse Train Duration (f = 50 Hz)

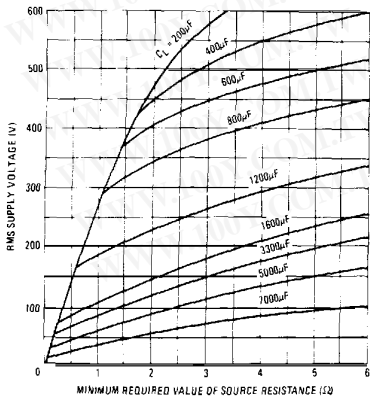


Fig. 3 – Minimum Required Source Resistance Vs. RMS Supply Voltage and Load Capacitance

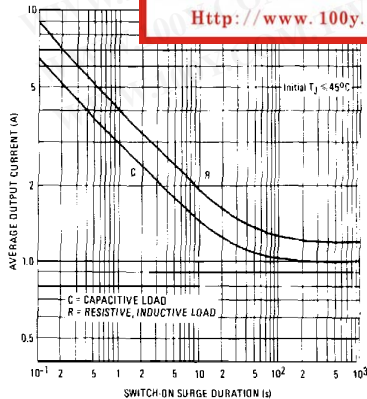


Fig. 4 – Maximum Switch-On Surge Current Vs. Surge Duration

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