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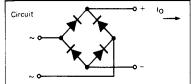


KBPC1, KBPC6 SERIES

3A, 6A single phase rectifier bridges

Maximum Ratings

		KBPC1	КВРС6	Units
10		3	6	Α
¹ FSM	50Hz	50	125	Α
	60Hz	55	137	Α
l ² t	50Hz	12.5	78	A ² s
	60Hz	11.4	71	A ² s
VRRM		50 to 1000		٧

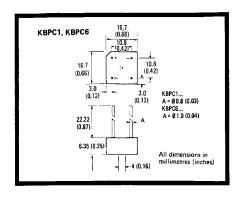


Description

3A and 6A single phase encapsulated bridge rectifiers consisting of four single diodes connected as a full bridge. They are suitable for general applications in industrial and consumer equipment.

Features

- Suitable for printed circuit board or chassis mounting
 - Compact construction
 - High surge current capability



Electrical Specifications

		KBPC1	KBPC6	Units	Conditions		
10			6.0	A	T _c = 50°C, Resistive and inductive load		
current		2.4	4.7	Α	T _c = 50°C, capacitive load		
IFSM	Maximum peak one cycle, non-repetitive surge	50	125	Α	t = 10ms, 20ms	Following any rated load condition and with rated V _{RRM} reapplied	
current		55	137	Α	t = 8.3ms, 16.7ms		
l ² t	Maximum I ² t capability for	12.5	78	A ² s	t = 10ms	Initial $T_J = T_J$ max 100% V_{RRM} reapplied	
fusing	rusing	11.4	71	A ² s	t = 8.3ms		
			110	A ² s	t = 10ms	Initial T _J = T _J max	
		16.1	100	A ² s	t = 8.3ms	No voltage reapplied	
l²√t	Maximum $I^2\sqrt{t}$ capability for fusing	177	1105	A ² √s	t = 0.1 to 10ms, No voltage reapplied		
V _{FM}	Maximum peak forward voltage per diode	1.1	1.2`	>	I _{FM} = 0.5 x I _O , T _J = 25°C		
	Typical peak reverse leakage current per diode	10	10	μΑ	T _J = 25°C	100% V _{RRM}	
		1.0	1.0	mA	T _J = 150°C		
f	Operating frequency range	40 to 1000 Hz		Hz			

Thermal and Mechanical Specifications

		KBPC1	KBPC6	Units	Conditions
TJ	Operating temperature range	-40 to 150		°C	
T _{stg}	Storage temperature range	-40 to 150		°C	
W	Approximate weight	5 (0.18)	6 (0.21)	g (oz)	

Voltage Specifications

Part number	V _{RRM} Maximum repetitive	V _{RSM} Maximum non-	V _{RMS} Maximum	
	peak reverse	repetitive peak	recommended RMS	
	voltage	reverse voltage	supply voltage	
	V	V	V	
KBPC1005 KBPC6005	50	50	20	
KBPC102 KBPC602	200	200	80	
KBPC104 KBPC604	400	400	125	
KBPC106 KBPC606	600	600	250	
KBPC108 KBPC608	800	800	380	
KBPC110 KBPC610	1000	1000	500	

Fig. 1 — Case Temperature Ratings

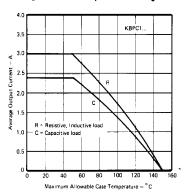


Fig. 2 - Case Temperature Ratings

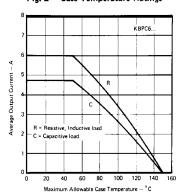


Fig. 3 - Non-Repetitive Surge Ratings

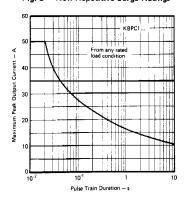
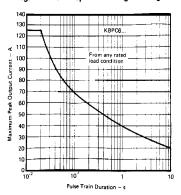


Fig. 4 - Non-Repetitive Surge Ratings



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