Bridge Rectifiers

Features

- UL recognition file number E230084
- Universal 3-way terminals: snap-on, wire wrap-around, or PCB mounting
- High surge current capability
- Low thermal resistance
- Solder dip 275 °C max. 7 s, per JESD 22-B106

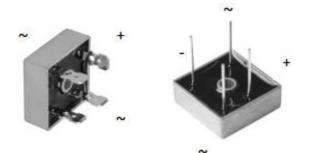
Typical Applications

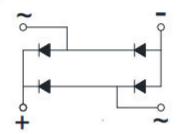
General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

Package: KBPC,KBPC-W
 Molding compound meets UL 94 V-0 flammability rating,RoHS- compliant

●Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102 Suffix letter "W" added to indicate wire leads(e.g. KBPC1010W)





■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBPC10 005	KBPC10 01	KBPC10 02	KBPC10 04	KBPC10 06	KBPC10 08	KBPC10 10
Device marking code			KBPC10005	KBPC1001	KBPC1002	KBPC1004	KBPC1006	KBPC1008	KBPC1010
Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine Wave, R-load, With heatsink Tc=55℃	1 1()	Α	10						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, Ta=25℃	IFSM	А	220						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	200						
Storage Temperature	Tstg	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V _{dis}	KV	2.6						
Mounting Torque	TOR	kg⋅cm	10						

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC10 005	KBPC10 01	KBPC10 02	KBPC10 04	KBPC10 06	KBPC10 08	KBPC10 10
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=5A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM				10			

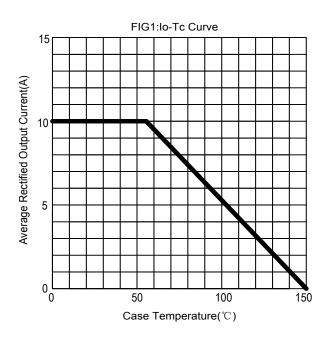
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

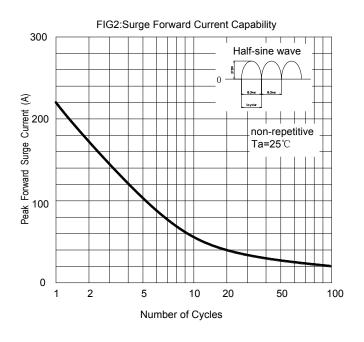
PAF	RAMETER	SYMBOL	UNIT	KBPC10 005	KBPC10 01	KBPC10 02	KBPC10 04	KBPC10 06	KBPC10 08	KBPC10 10
	Between junction and case, With heatsink	R θ J-C	°C/W				2.2			

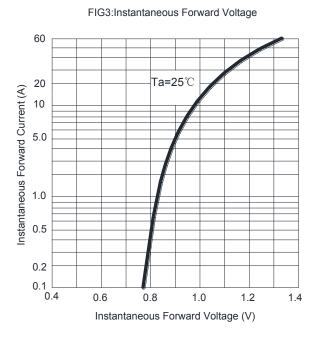
■Ordering Information (Example)

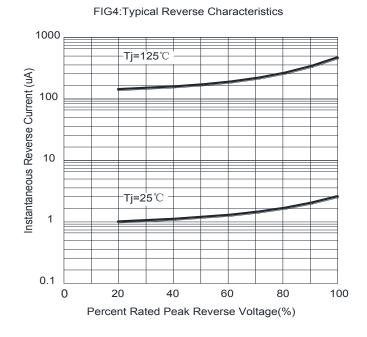
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBPC10005~KBPC1010	A1	Approximate 24.5	50	50	500	Paper Box
KBPC10005W~KBPC1010W	A1	Approximate 22.5	50	50	500	Paper Box

■ Characteristics (Typical)

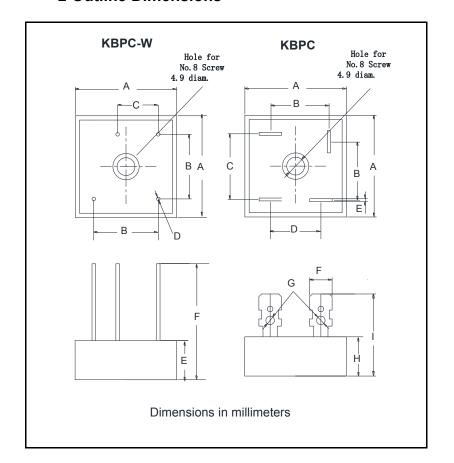








■ Outline Dimensions



KBPC-W					
Dim	Min	Max			
Α	28.2	28.8			
В	17.1	19.1			
С	10.4	12.4			
D	0.95	1.05			
E	7.6	8.2			
F	30				

KBPC						
Dim	Min	Max				
Α	28.2	28.8				
В	15.3	17.3				
С	17.1	19.1				
D	13.2	15.2				
Е	0.75	0.85				
F	6.2	6.4				
G	2.4	2.6				
Н	7.6	8.2				
I	19					

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