



Bridge Rectifiers



- 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

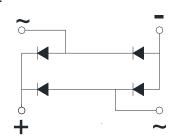
rating,RoHS- compliant

•Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

Suffix letter "W" added to indicate wire leads(e.g.

KBPC5010W)



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

PARAMETER	SYMBOL	UNIT	KBPC50 005	KBPC50 01	KBPC50 02	KBPC50 04	KBPC50 06	KBPC50 08	KBPC50 10
Device marking code			KBPC50005	KBPC5001	KBPC5002	KBPC5004	KBPC5006	KBPC5008	KBPC5010
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink Tc=55°C	Ю	Α	50						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, Ta=25℃	IFSM	А	500						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	1040						
Storage Temperature	Tstg	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting Torque	TOR	kg-cm	10						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC50 005	KBPC50 01	KBPC50 02	KBPC50 04	KBPC50 06	KBPC50 08	KBPC50 10
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=25A				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)

PA	RAMETER	SYMBOL	UNIT	KBPC50 005	KBPC50 01	KBPC50 02	KBPC50 04	KBPC50 06	KBPC50 08	KBPC50 10
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W				1.3			

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBPC50005~KBPC5010	A1	Approximate 24.5	50	50	500	Paper Box
KBPC50005W~KBPC5010W	A1	Approximate 22.5	50	50	500	Paper Box

■ Characteristics (Typical)

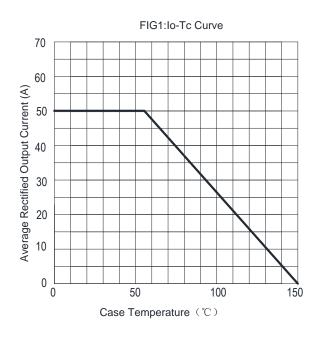
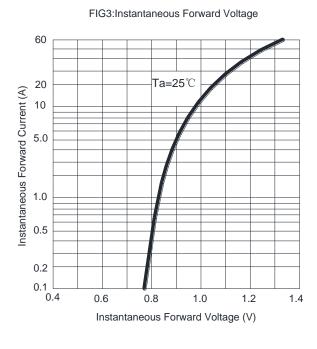


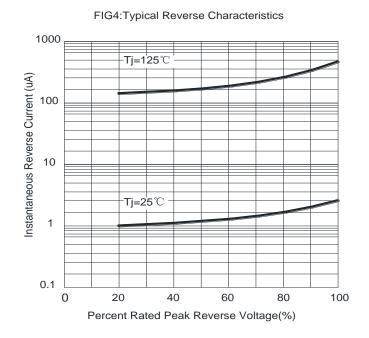
FIG2:Surge Forward Current Capability

Half-sine Wave

Half-sine Wave

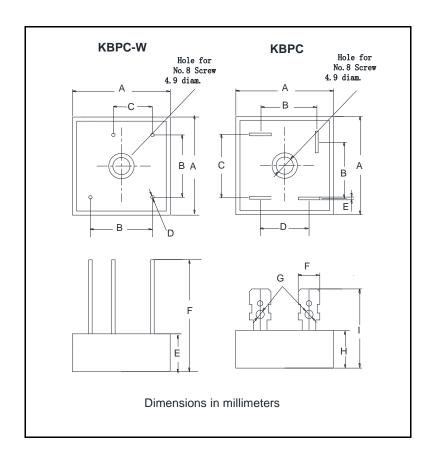
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■ Outline Dimensions



	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					
Е	10.8	11.2					
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	10.8	11.2				
I	19					



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