Bridge Rectifiers

Features

- UL recognition file number E2 34
- 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

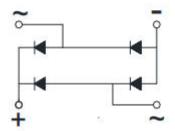
General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

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. KBPC2510W





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

PARAMETER	SYMBOL	UNIT	KBPC25 005	KBPC25 01	KBPC25 02	KBPC25 04	KBPC25 06	KBPC25 08	KBPC25 10
Device marking code			KBPC25005	KBPC2501	KBPC2502	KBPC2504	KBPC2506	KBPC2508	KBPC2510
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℃	lo	А	25						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, T _a =25℃	IFSM	Α	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	660						
Storage Temperature	T _{stg}	$^{\circ}$	-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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC25 005	KBPC25 01	KBPC25 02	KBPC25 04	KBPC25 06	KBPC25 08	KBPC25 10
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=12.5A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

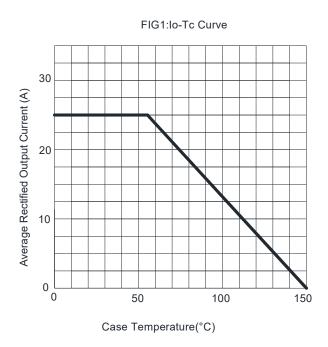
■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

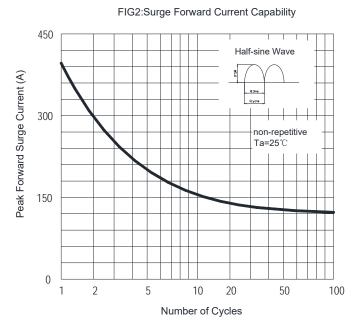
PAF	RAMETER	SYMBOL	UNIT	KBPC25 005	KBPC25 01	KBPC25 02	KBPC25 04	KBPC25 06	KBPC25 08	KBPC25 10
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W				2.2			

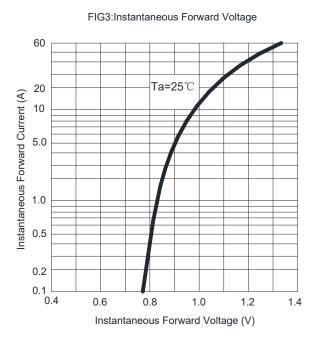
■ Ordering Information (Example)

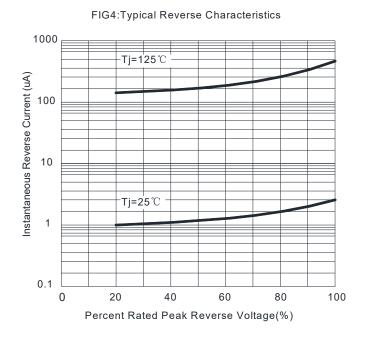
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBPC25005~KBPC2510	A1	Approximate 24.5	50	50	500	Paper Box
KBPC25005W~KBPC2510W	A1	Approximate 22.5	50	50	500	Paper Box

■ Characteristics (Typical)

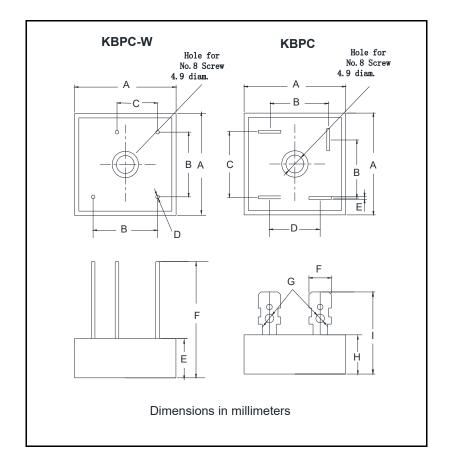








■ Outline Dimensions



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				
Е	7.6	8.2				
F	30					

КВРС						
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	2.3	2.5				
Н	7.6	8.2				
ı	19					

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Steifpower Technology products best suited to the customer's applications, they do not convey any license under any intellectual property rights, or any other rights, belonging to Steifpower Technology or third party. Steifpower Technology assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials. All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Steifpower Technology without notice due to product improvements or other reasons.

It is therefore recommended that customers contact Steifpower Technology or unauthorized Steifpower Technology for the latest product information before purchasing a productlisted herein.

The information described here may containtechnical inaccuracies or typographicalerrors.

Steifpower Technology assumes no responsibility for any damage, liability, or other loss rising from theseinaccuracies or errors.

Please also pay attention to information published by Steifpower Technologyby various means including our website home page (http://www.steifpower.com).

When using any or all of the information contained in these materials, including product data diagrams, charts, programs, and algorithms, please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products.

Steifpower Technology assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Steifpower Technology is necessary to reprint or reproduce in whole or in part these materials.

Please contact Steifpower Technology or an authorized distributor for further details on these materials or the products contained herein.