

KBPC25PS SERIES

25A SINGLE PHASE BRIDGE RECTIFIER



Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Heatsink Integrated Epoxy Case for Maximum Heat Dissipation
- Low Thermal Resistance
- High Surge Current Capability
- Recognized File # E157705

В

D

KBPC-PS					
Dim	Min	Max			
Α	28.40 28.70				
В	— 10.16				
С	21.00 22.50				
D	9.00	10.00			
E	_	25.40			
G	5.08Ø Nominal				
Н	6.35 Typical				
J	0.71	0.91			
K	2.5Ø Typical				
All Dimension in mm					

Mechanical Data

- Case: Epoxy Case with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Faston Lugs
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 2.0 N.m Max.
- Weight: 20 grams (approx.)Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC25						Unit		
Characteristic	Symbol	00PS	01PS	02PS	04PS	06PS	08PS	10PS	12PS	Onit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	V
Average Rectified Output Current @T _C = 55°C	lo	25			Α					
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	300					А			
Forward Voltage per leg @I _F = 12.5A	VFM	1.1				V				
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	IRM	10 500				μA				
I ² t Rating for Fusing (t < 8.3ms)	l ² t	375			A ² s					
Typical Junction Capacitance (Note 1)	Cı	200			pF					
Typical Thermal Resistance (Note 2)	R JC	1.9			°C/W					
RMS Isolation Voltage, t = 1min	Viso	2500			V					
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150			°C					

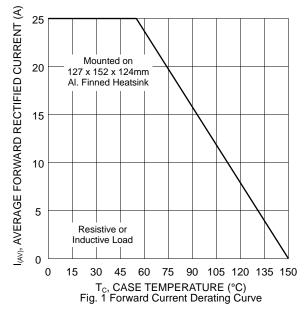
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

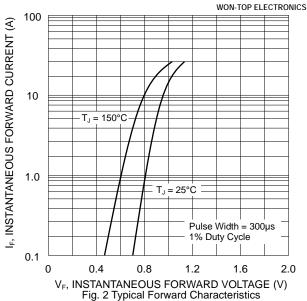
2. Thermal resistance junction to case, mounted on 127 x 152 x 124mm Al. heatsink.

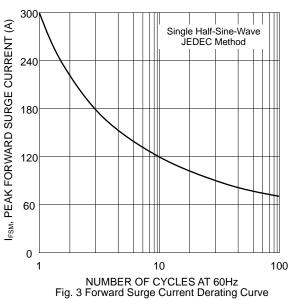
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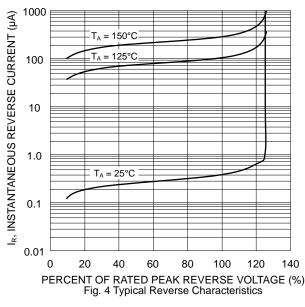
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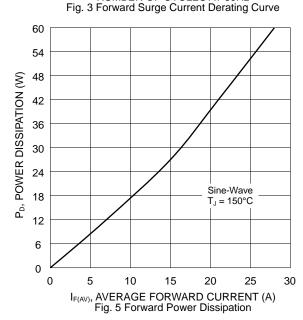


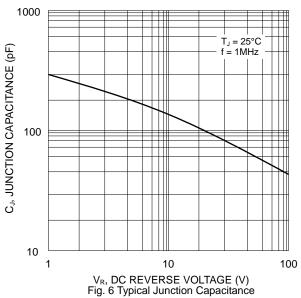
















MARKING INFORMATION



KBPC25xxPS = Device Number

xx = 00, 01, 02, 04, 06, 08, 10 or 12

Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

Case Style	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
KBPC-PS	195 x 195 x 40	50	405 x 205 x 240	500	12.0

Note: 1. Paper box, white or brown color.

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Revision: September, 2012

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC25xxPS	Square Bridge	50 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBPC2500PS-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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