



40A SINGLE PHASE BRIDGE RECTIFIER

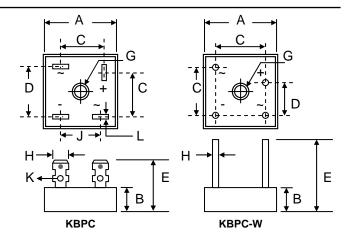


Features

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

Mechanical Data

- Case: KBPC (Metal Case with Faston Lugs) or KBPC-W (Metal Case with Wire Leads)
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 2.0 N.m Max.
- Weight: 30 grams (KBPC); 28 grams (KBPC-W)
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



	KBPC		KBPC-W		
Dim	Min	Max	Min	Max	
Α	27.94	28.96	27.94	28.96	
В	10.77	11.23	10.77	11.23	
C	15.30	17.60	17.10	19.10	
D	17.10	19.10	10.40	12.40	
E	21.50	_	30.50	_	
G	Hole for #10 screw, 5.08Ø Nominal				
Н	6.35 Typical		0.97Ø	1.07Ø	
J	13.20	15.20			
K	2.5Ø Typical				
L	0.71	0.91			
All Dimension in mm					

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 KBPC40							Unit		
Characteristic	Syllibol	00	01	02	04	06	08	10	12	Ullit
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	٧
Average Rectified Output Current @T _C = 55°C	lo	40							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	500						А		
Forward Voltage per leg @I _F = 20A	VFM	1.1				٧				
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	lгм	10 500				μΑ				
I ² t Rating for Fusing (t < 8.3ms)	l ² t	800							A ² s	
Typical Junction Capacitance (Note 1)	Cı	300						pF		
Typical Thermal Resistance (Note 2)	R JC	1.2						°C/W		
RMS Isolation Voltage, t = 1min	Viso	2500						V		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150						°C		

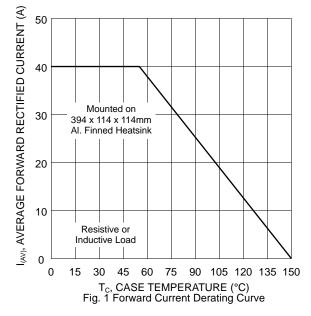
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

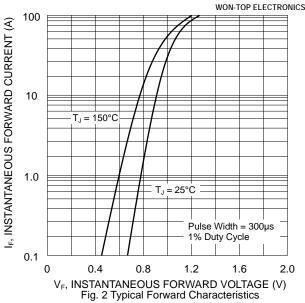
2. Thermal resistance junction to case, mounted on 394 x 114 x 114mm Al. heatsink.

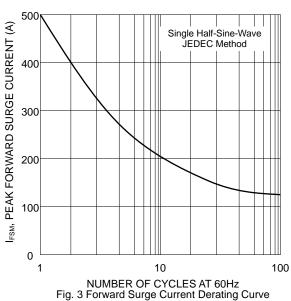
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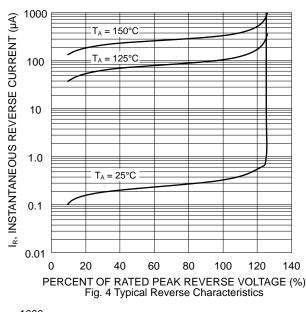
KBPC40 SERIES

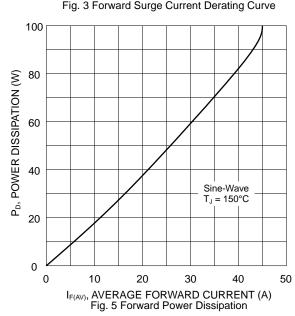


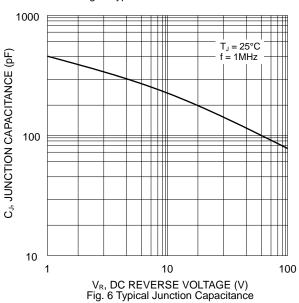














MARKING INFORMATION

KBPC



KBPC40xx = Device Number

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

Polarity = As Marked on Body

KBPC-W



KBPC40xxW = 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)
КВРС	195 x 195 x 40	50	405 x 205 x 240	500	17.0
KBPC-W	195 x 195 x 40	50	405 x 205 x 240	500	16.0

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



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
KBPC40xx	Square Bridge	50 Units/Box		
KBPC40xxW	Square Bridge	50 Units/Box		

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- 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, KBPC4000-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.

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