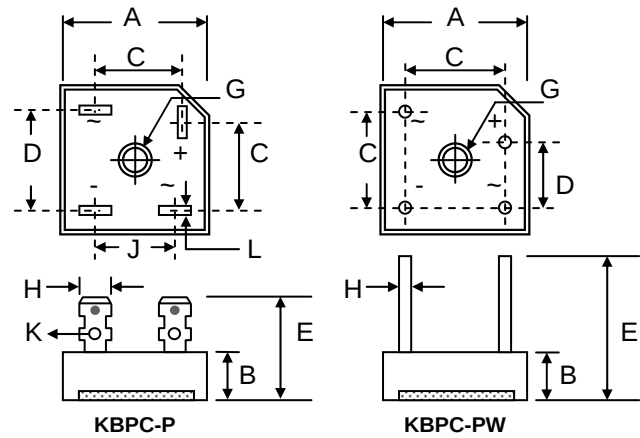


Features

- 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

Mechanical Data

- Case: Epoxy Case with Heatsink, Available in Both Low Profile and Standard Case Height
- 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: 21 grams (KBPC-P); 18 grams (KBPC-PW)
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**



	KBPC-P Low Profile / Standard		KBPC-PW Low Profile / Standard	
Dim	Min	Max	Min	Max
A	28.20	28.80	28.20	28.80
B	7.50 / 10.77	8.50 / 11.23	7.50 / 10.77	8.50 / 11.23
C	15.30	17.30	17.10	19.10
D	17.10	19.10	10.40	12.40
E	19.00 / 21.50	—	30.50	—
G	Hole for #10 screw, 5.08Ø Nominal			
H	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				

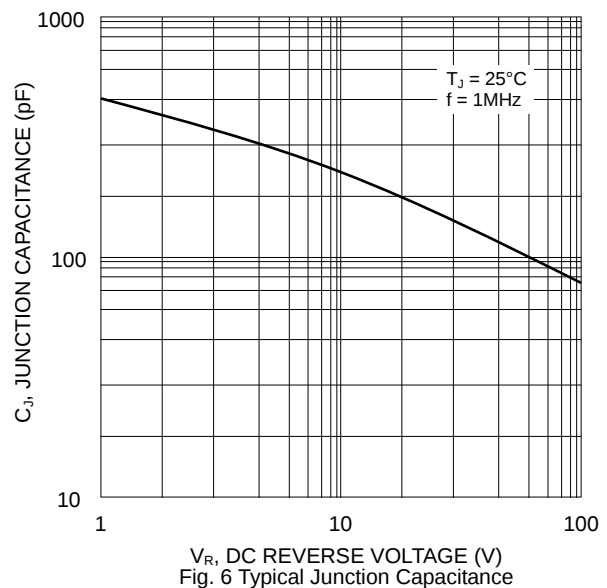
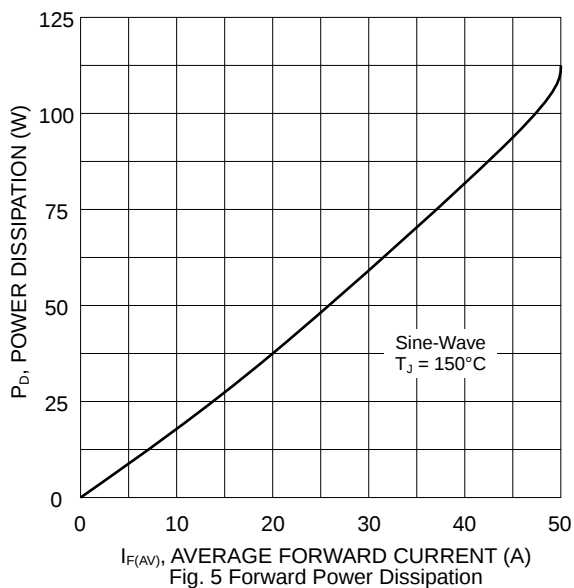
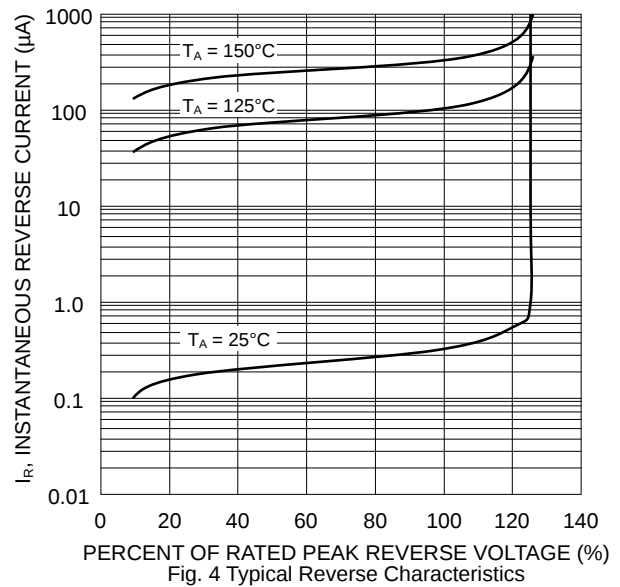
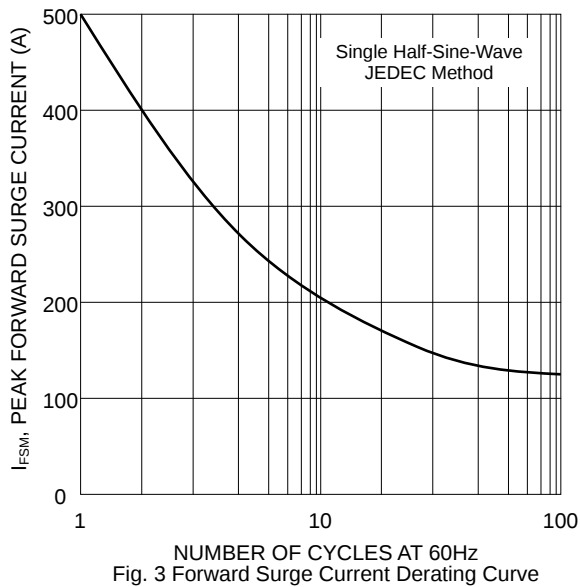
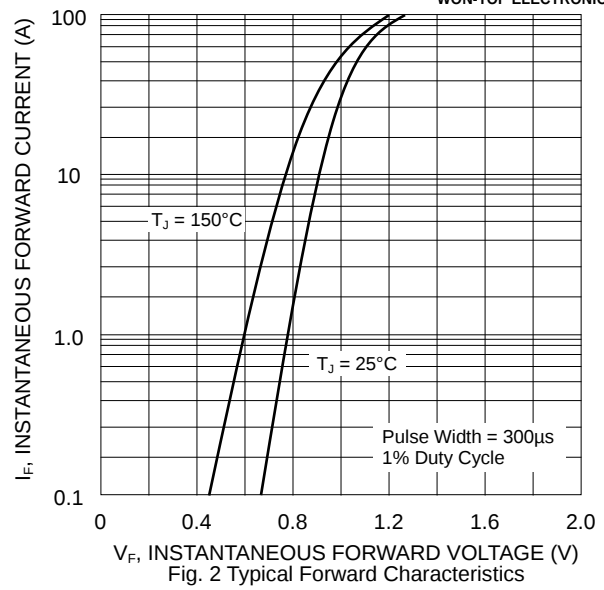
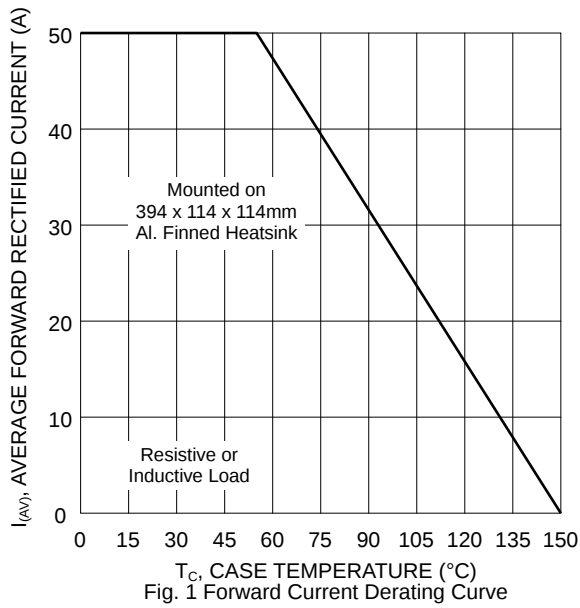
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

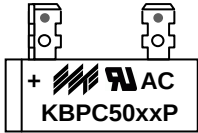
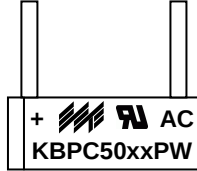
Characteristic	Symbol	KBPC50								Unit
		00P	01P	02P	04P	06P	08P	10P	12P	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	840	V
Average Rectified Output Current @T _C = 55°C	I _O	50								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	500								A
Forward Voltage per leg @I _F = 25A	V _{FM}	1.1								V
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 125°C	I _{RM}	10 500								µA
I ² t Rating for Fusing (t < 8.3ms)	I ² t	800								A ² s
Typical Junction Capacitance (Note 1)	C _J	300								pF
Typical Thermal Resistance (Note 2)	R _{θJC}	1.4								°C/W
RMS Isolation Voltage, t = 1min	V _{ISO}	2500								V
Operating and Storage Temperature Range	T _J , T _{STG}	-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.



MARKING INFORMATION

KBPC-P  KBPC50xxP = Device Number xx = 00, 01, 02, 04, 06, 08, 10 or 12 Polarity = As Marked on Body	KBPC-PW  KBPC50xxPW = 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-P	195 x 195 x 40	50	405 x 205 x 240	500	12.0
KBPC-PW	195 x 195 x 40	50	405 x 205 x 240	500	11.0

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

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC50xxP	Square Bridge	50 Units/Box
KBPC50xxPW	Square Bridge	50 Units/Box

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBPC5000P-LF.**

WON-TOP ELECTRONICS and  are registered trademarks of Won-Top Electronics Co., Ltd (WTE). WTE has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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,
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>

We power your everyday.