
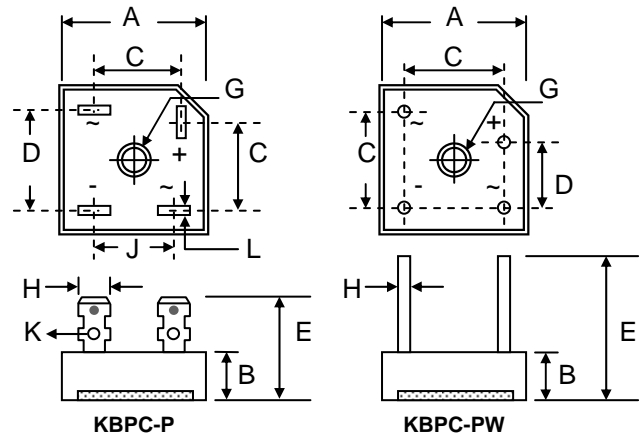


Features

- 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**



Dim	KBPC-P Low Profile / Standard		KBPC-PW Low Profile / Standard	
	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	KBPC15								Unit
		00P	01P	02P	04P	06P	08P	10P	12P	
Peak Repetitive Reverse Voltage	V _{RRM}									
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	V _R									
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	15								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	300								A
Forward Voltage per leg @ _{I_F} = 7.5A	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	375								A ² s
Typical Junction Capacitance (Note 1)	C _J	200								pF
Typical Thermal Resistance (Note 2)	R _{JC}	1.9								°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 127 x 102 x 76mm Al. heatsink.

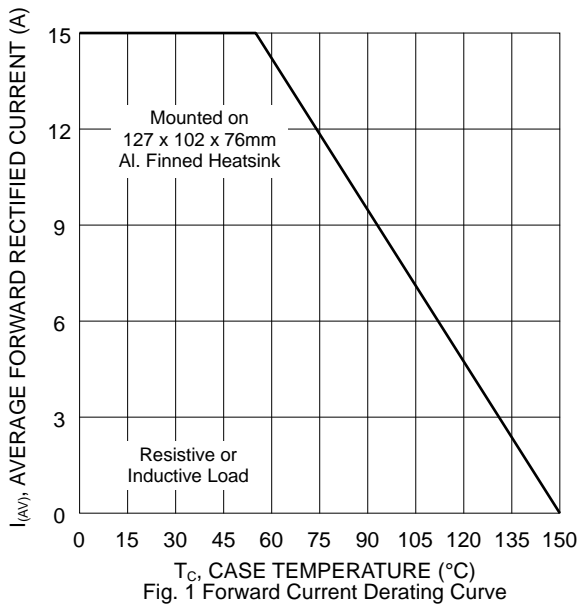


Fig. 1 Forward Current Derating Curve

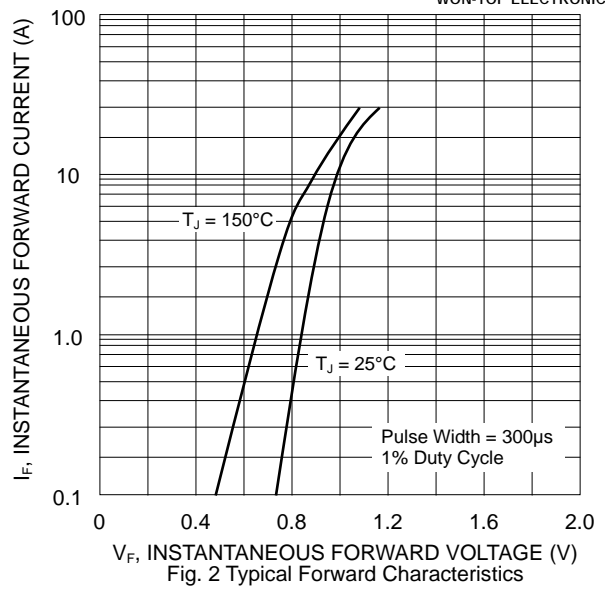


Fig. 2 Typical Forward Characteristics

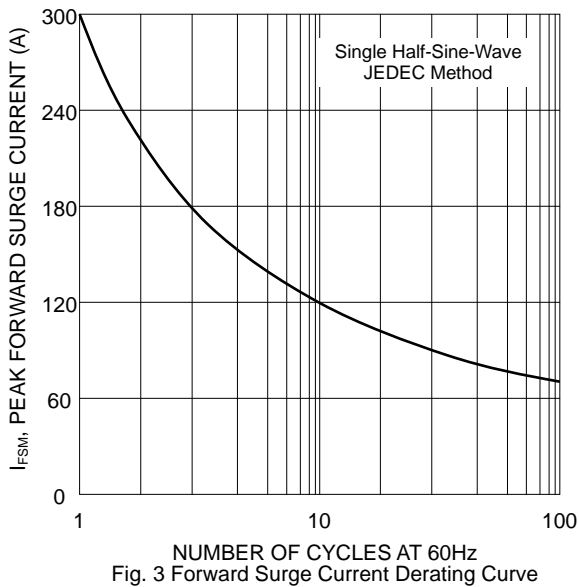


Fig. 3 Forward Surge Current Derating Curve

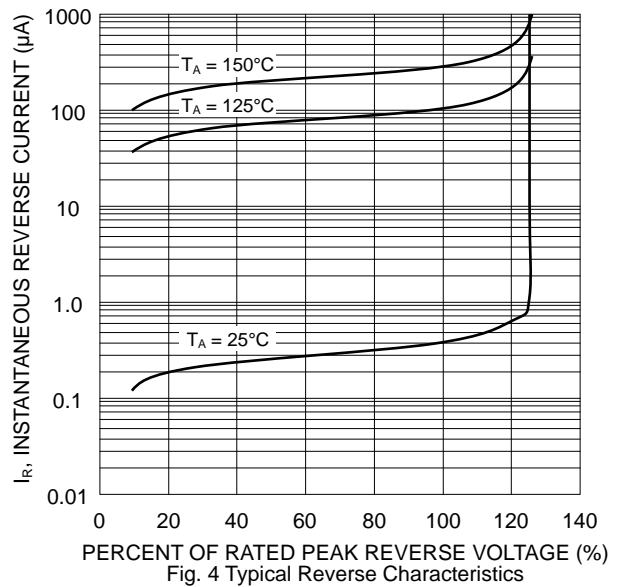


Fig. 4 Typical Reverse Characteristics

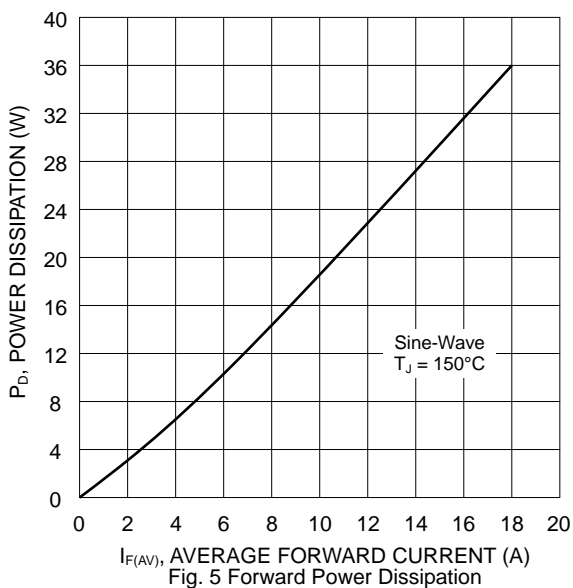


Fig. 5 Forward Power Dissipation

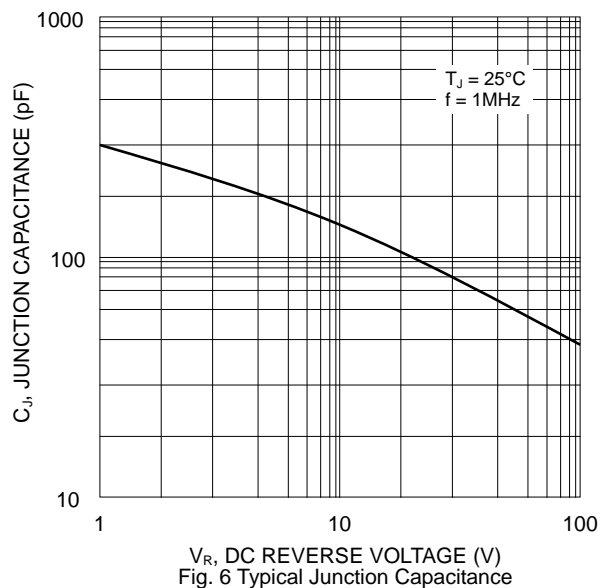
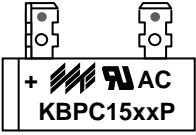



Fig. 6 Typical Junction Capacitance

MARKING INFORMATION

KBPC-P	KBPC-PW
 <p>KBPC15xxP = Device Number xx = 00, 01, 02, 04, 06, 08, 10 or 12 Polarity = As Marked on Body</p>	 <p>KBPC15xxPW = Device Number xx = 00, 01, 02, 04, 06, 08, 10 or 12 Polarity = As Marked on Body</p>

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
KBPC15xxP	Square Bridge	50 Units/Box
KBPC15xxPW	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, KBPC1500P-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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