

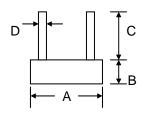


### 10A SINGLE PHASE BRIDGE RECTIFIER



### **Features**

- **Diffused Junction**
- High Current Capability
- High Case Dielectric Strength
- High Surge Current Capability
- Ideal for Printed Circuit Board Application
- Plastic Material has UL Flammability 94V-0
- Recognized File # E157705



KBPC-8					
Dim	Min	Max			
Α	18.54	19.56			
В	6.35 7.60				
С	15.00	_			
D	1.27 Ø Typical				
Е	5.33	7.37			
G	Hole for #6 screw				
3	3.60	4.00			
Н	12.20	13.20			
All Dimensions in mm					

### **Mechanical Data**

Case: KBPC-8, Molded Plastic

Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Marked on Body

Weight: 5.4 grams (approx.)

Mounting Position: Through Hole for #6 Screw

Mounting Torque: 0.8 N.m Max.

Marking: Type Number

Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	PB 1000	PB 1001	PB 1002	PB 1004	PB 1006	PB 1008	PB 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T <sub>C</sub> = 50°C	lo				10				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				175				А
Forward Voltage per leg @I <sub>F</sub> = 5.0A	VFM				1.1				٧
$ \begin{array}{lll} \mbox{Peak Reverse Current} & \mbox{@T}_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{C} \\ \mbox{At Rated DC Blocking Voltage} & \mbox{@T}_{\mbox{\scriptsize A}} = 125^{\circ}\mbox{C} \\ \end{array} $	IRM				10 500				μА
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t				166				A <sup>2</sup> s
Typical Junction Capacitance (Note 2)	Cı		2	11			94		pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC	22 6.5			°C/W				
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	1500					V		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150				°C			

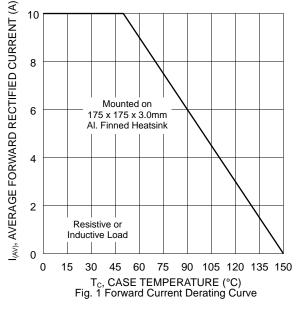
Note: 1. Mounted on 175 x 175 x 3.0mm thick Al. heatsink.

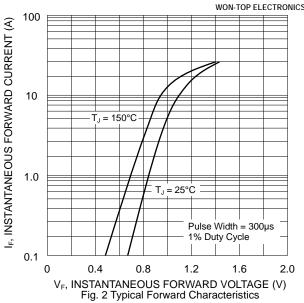
Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.

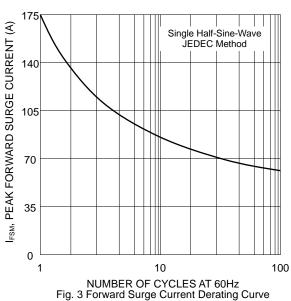
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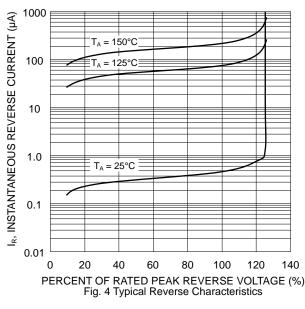
# PB1000 - PB1010

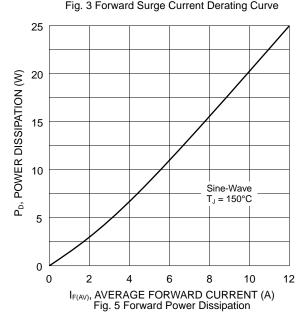


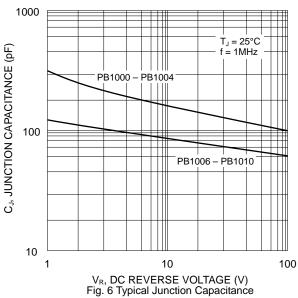






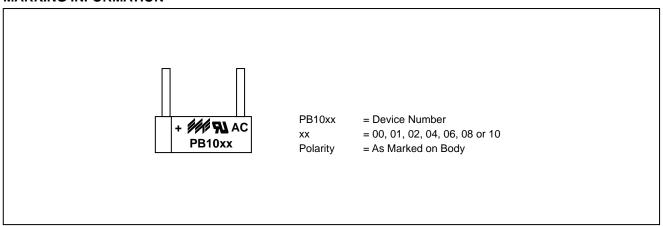








### **MARKING INFORMATION**



### **PACKAGING INFORMATION**

### **BULK**

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)
237 x 240 x 52	200	500 x 255 x 275	2,000	14.0

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



### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
PB1000	Square Bridge	200 Units/Box
PB1001	Square Bridge	200 Units/Box
PB1002	Square Bridge	200 Units/Box
PB1004	Square Bridge	200 Units/Box
PB1006	Square Bridge	200 Units/Box
PB1008	Square Bridge	200 Units/Box
PB1010	Square Bridge	200 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, PB1000-LF.

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