

PB1000S - PB1010S

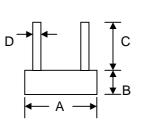


10A SINGLE-PHASE BRIDGE RECTIFIER

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

G + ~ ~ A



KBPC-6				
Dim	Min	Max		
Α	14.73	15.75		
В	5.80	6.90		
С	19.00	_		
D	1.00 Ø Typical			
E	1.70	2.72		
G	Hole for #6 screw			
G	3.60	4.00		
Н	10.30	11.30		
All Dimensions in mm				
-				

Mechanical Data

Case: KBPC-6, Molded Plastic

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

Polarity: Marked on Body

Weight: 3.8 grams (approx.)Mounting Position: Through Hole for #6 Screw

Mounting Torque: 10 cm-kg (8.8 in-lbs) 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 @TA=25°C unless otherwise specified

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

Characteristic		Symbol	PB 1000S	PB 1001S	PB 1002S	PB 1004S	PB 1006S	PB 1006S	PB 1010S	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	e 1) @T _C = 50°C	lo				10				Α
Non-Repetitive Peak Forward Surge C Single half sine-wave superimposed or (JEDEC Method)		IFSM				150				А
Forward Voltage per leg	@I _F = 5.0A	VFM				1.1				V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	lr				5.0 500				μΑ
I ² t Rating for Fusing (t<8.3ms) (Note 2)		l ² t				127				A ² s
Typical Junction Capacitance (Note 3)		Cj				110				pF
Typical Thermal Resistance per leg (Note 1)		R _θ JC	6.0				°C/W			
Operating and Storage Temperature Range		Тj, Тsтg	-65 to +125					°C		

Note: 1. Mounted on metal chassis.

- 2. Non-repetitive, for t > 1ms and < 8.3ms.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

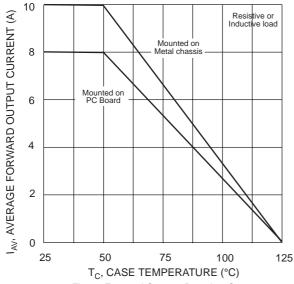
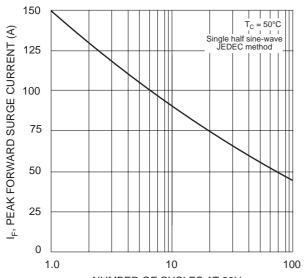


Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

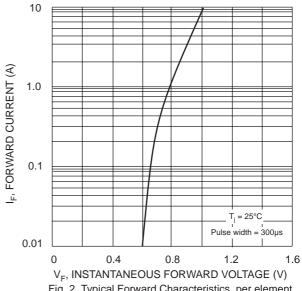
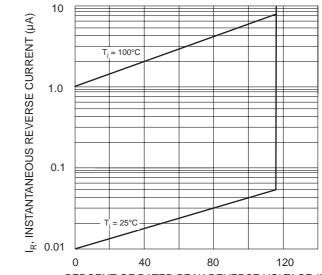
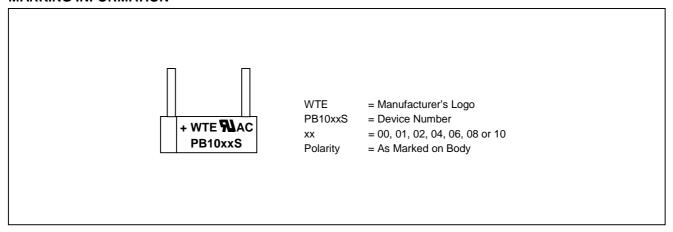


Fig. 2 Typical Forward Characteristics, per element



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 4 Typical Reverse Characteristics, per element

MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
198 x 198 x 50	200	425 x 215 x 280	2,000	8.0

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

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
PB1000S	Square Bridge	200 Units/Box
PB1001S	Square Bridge	200 Units/Box
PB1002S	Square Bridge	200 Units/Box
PB1004S	Square Bridge	200 Units/Box
PB1006S	Square Bridge	200 Units/Box
PB1008S	Square Bridge	200 Units/Box
PB1010S	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 Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, PB1000S-LF.

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