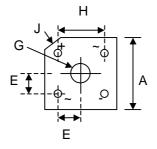


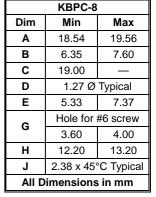
PB1000 - PB1010

10A 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 Underwriters Laboratory Flammability Classification 94V-O





Mechanical Data

Case: 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: 5.0 Inch-pounds Maximum

Marking: Type Number

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	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 _C = 50	°C Io	10				Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150			А				
Forward Voltage (per element) @I _F = 5.0	A VFM	1.1				V			
Peak Reverse Current $@T_C = 25^{\circ}$ 0 At Rated DC Blocking Voltage $@T_C = 100^{\circ}$ 0	I ID	10 1.0				μA mA			
I ² t Rating for Fusing (t<8.3ms) (Note 2)	l ² t				64				A ² s
Typical Junction Capacitance (Note 3)	Cj				110				pF
Typical Thermal Resistance (Note 4)	R _θ JC				7.5				K/W
Operating and Storage Temperature Range	Тj, Tsтg			-6	65 to +12	25			°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.
- 4. Thermal resistance junction to case per element.

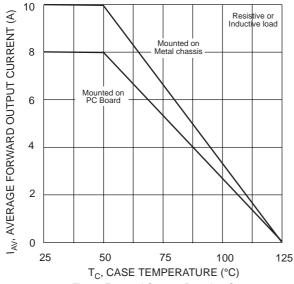
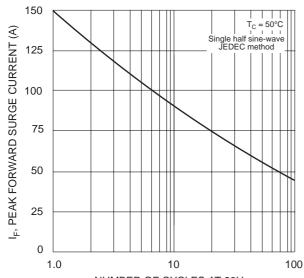


Fig. 1 Forward Current Derating Curve



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

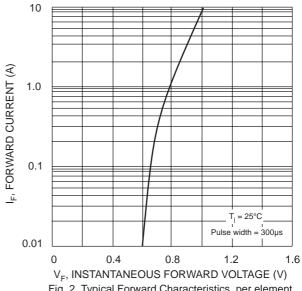
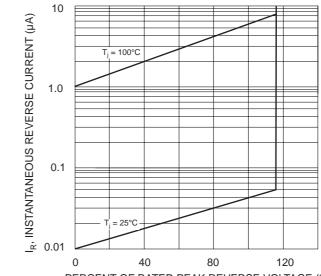


Fig. 2 Typical Forward Characteristics, per element



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

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.

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