

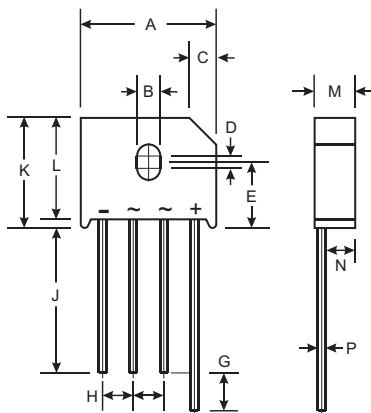
NOT RECOMMENDED FOR NEW DESIGN
USE GBU10005 - GBU1010

Features

Low Forward Voltage Drop, High Current Capability
 Surge Overload Rating to 300A Peak
 Ideal for Printed Circuit Board Applications
 Case to Terminal Isolation Voltage 1500V
 Plastic Material: UL Flammability
 Classification Rating 94V-0
 UL Listed Under Recognized Component
 Index, File Number E95060
Lead Free Finish, RoHS Compliant (Date Code 0514+)
(Note 3)

Mechanical Data

Case: Molded Plastic
 Terminals: Silver Plated Leads Solderable per
 MIL-STD-202, Method 208
 Polarity: As Marked on Case
 Mounting: Through Hole for #6 Screw
 Mounting Torque: 5.0 Inch-pounds Maximum
 Weight: 8.0 grams (approx.)
 Marking: Type Number



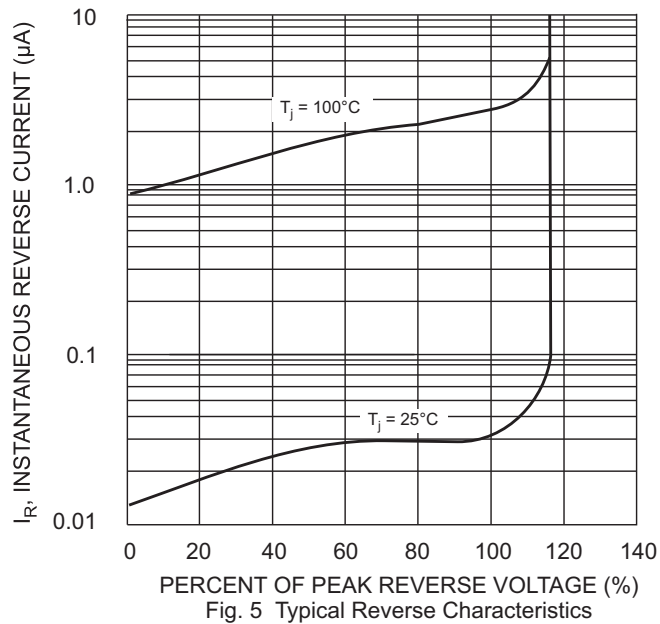
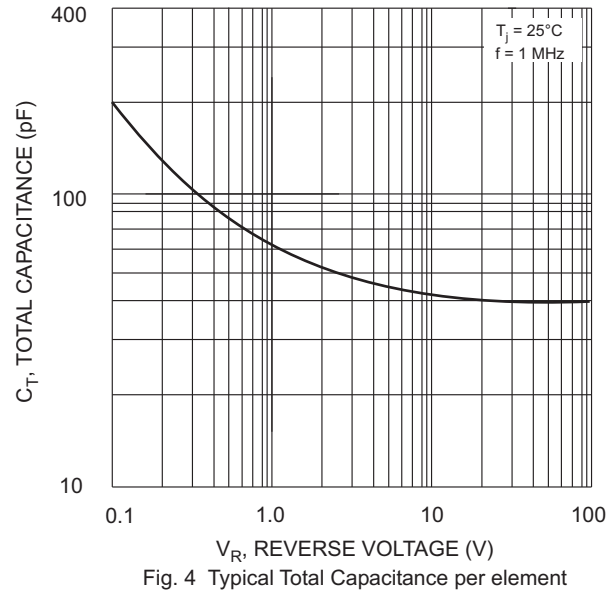
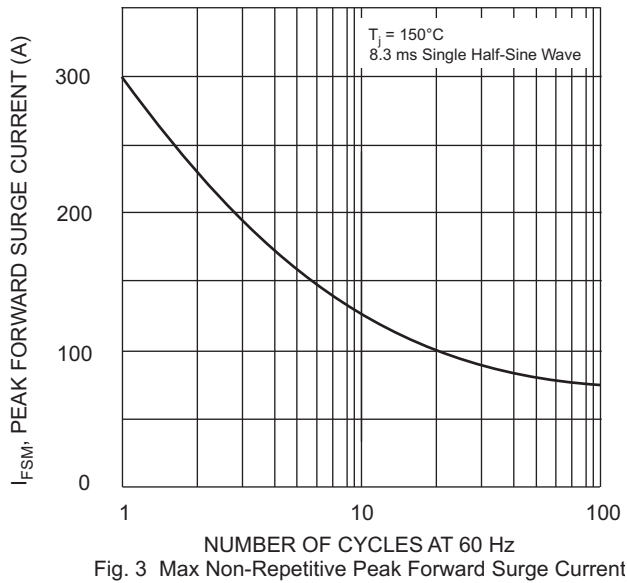
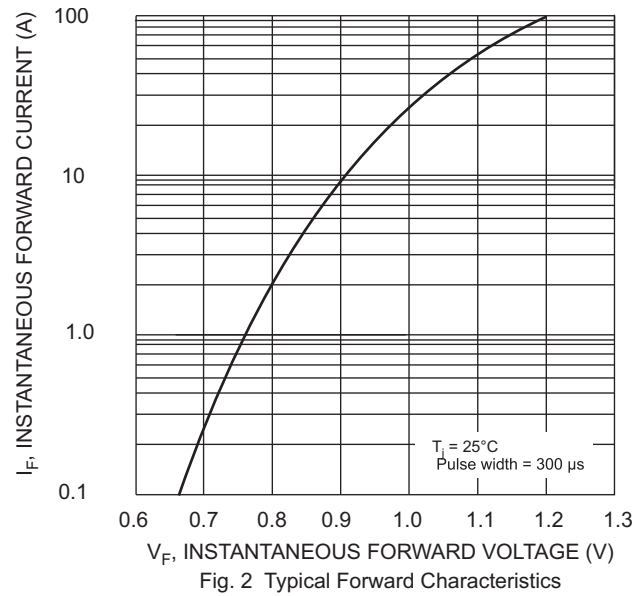
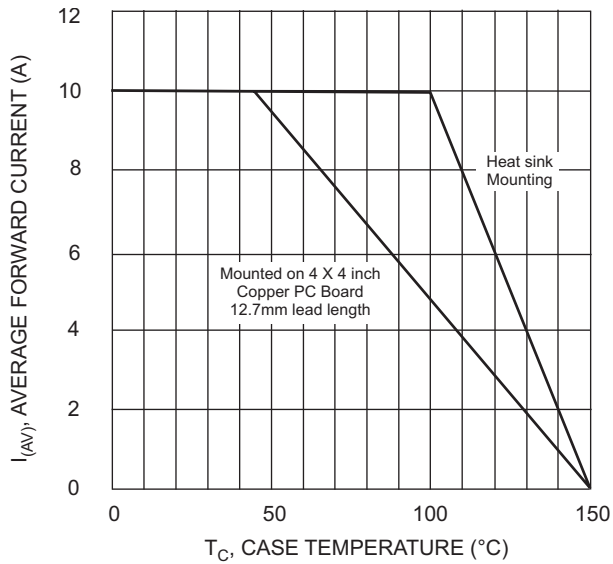
PBU		
Dim	Min	Max
A	22.70	23.70
B	3.80	4.10
C	4.20	4.70
D	1.70	2.20
E	10.30	11.30
G	4.50	6.80
H	4.80	5.80
J	25.40	
K		19.30
L	16.80	17.80
M	6.60	7.10
N	4.70	5.20
P	1.20	1.30
All Dimensions in mm		

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

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

Characteristic	Symbol	PBU 1001	PBU 1002	PBU 1003	PBU 1004	PBU 1005	PBU 1006	PBU 1007	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _C = 100 °C	I _O	10							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	I _{FSM}	300							A
Forward Voltage (per element) @ I _F = 5.0A	V _{FM}	1.0							V
Peak Reverse Current @ T _C = 25 °C	I _{RM}	10							μA
at Rated DC Blocking Voltage @ T _C = 125 °C		1.0							mA
I ² t Rating for Fusing (Note 2)	I ² t	373							A ² s
Typical Thermal Resistance Junction to Case (Note 1)	R _{JC}	2.2							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150							°C

- Notes:
1. Thermal resistance junction to case mounted on heatsink.
 2. Non-repetitive, for t > 1.0ms and t < 8.3ms.
 3. EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see *EU Directive Annex Notes 5 and 7*.



Ordering Information (Note 4)

Device	Packaging	Shipping
PBU1001	PBU	0.5K Bulk
PBU1002	PBU	0.5K Bulk
PBU1003	PBU	0.5K Bulk
PBU1004	PBU	0.5K Bulk
PBU1005	PBU	0.5K Bulk
PBU1006	PBU	0.5K Bulk
PBU1007	PBU	0.5K Bulk

Notes: 4. For packaging details, visit our website at <http://www.diodes.com/datasheets/ap2008.pdf>

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