Micro Commercial Components

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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

PB605 THRU PB610

6 Amp Glass Passivated Rectifier 50 to 1000 Volts

Features

- Glass Passivated chip
- Low Forward Voltage
- Any Mounting Position
- Silver Plated Copper Leads
- Surge Overload Rating Of 150 Amps
- UL Recognized File # E165989
- Case Material:Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

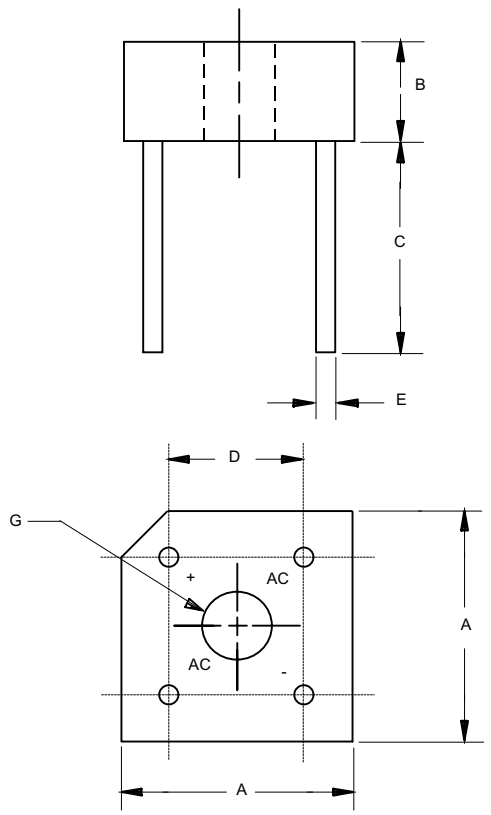
Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PB605	PB605	50V	35V	50V
PB61	PB61	100V	70V	100V
PB62	PB62	200V	140V	200V
PB64	PB64	400V	280V	400V
PB66	PB66	600V	420V	600V
PB68	PB68	800V	560V	800V
PB610	PB610	1000v	700V	1000v

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	T_J = 50°C
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.10V	I_{FM} = 3.0A; T_J = 25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 1 mA	T_J = 25°C T_J = 100°C

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

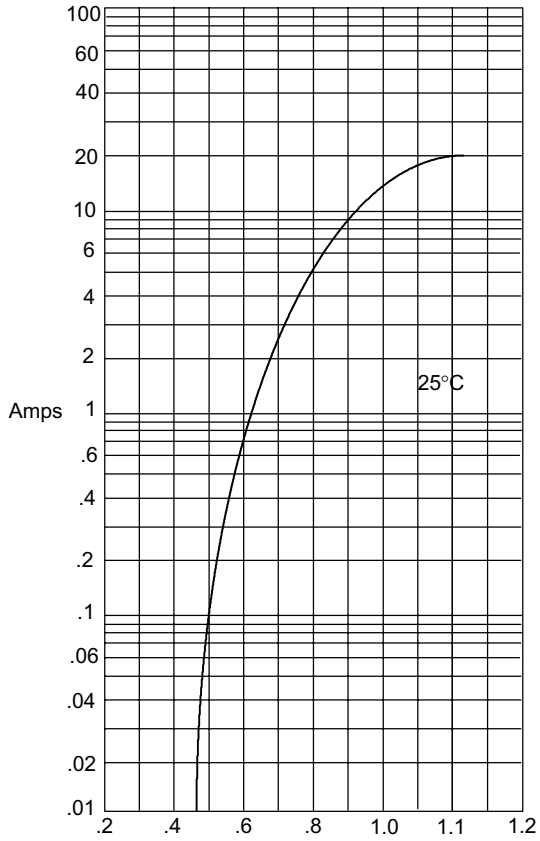
PB-6



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.578	.618	14.69	15.71	2PL
B	.230	.270	5.84	6.86	
C	.750	---	19.10	---	
D	.405	.444	10.30	11.30	2PL
E	.038	.042	0.97	1.07	4PL/TYP
G	.145	---	3.70	---	∅

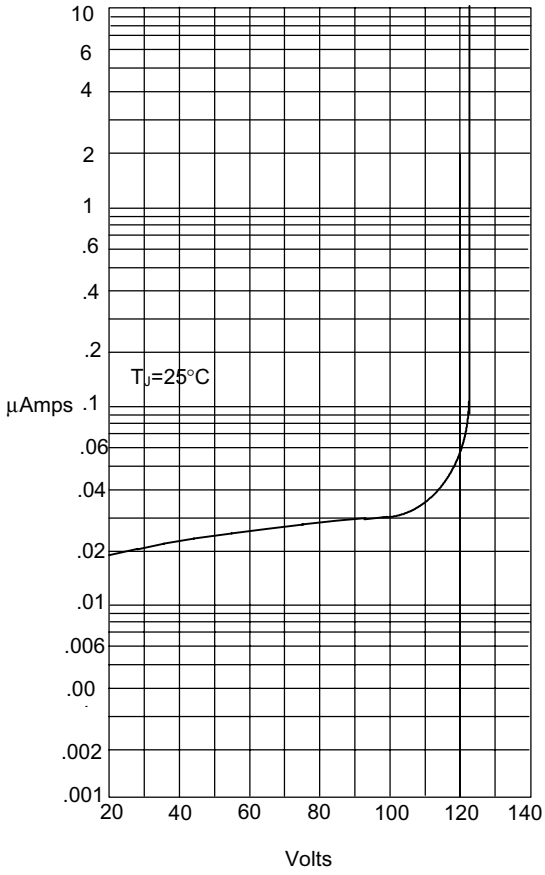
PB605 thru PB610

Figure 1
Typical Forward Characteristics



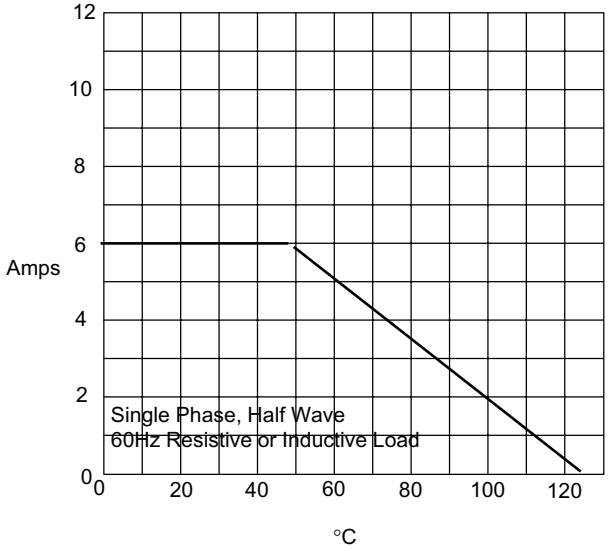
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



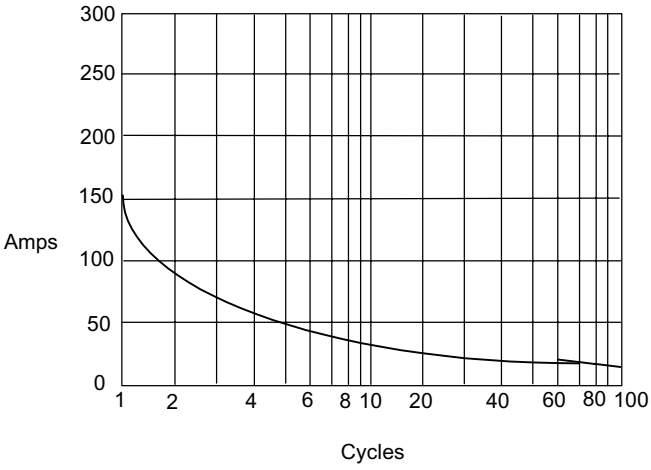
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;200pcs/Box

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