Micro Commercial Components
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PB305 THRU PB310

3 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

- Mounting Hole For #6 Screw
- Plastic Case
- Any Mounting Position
- Surge Rating Of 50 Amps
- Low Forward Voltage Drop

Maximum Ratings

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

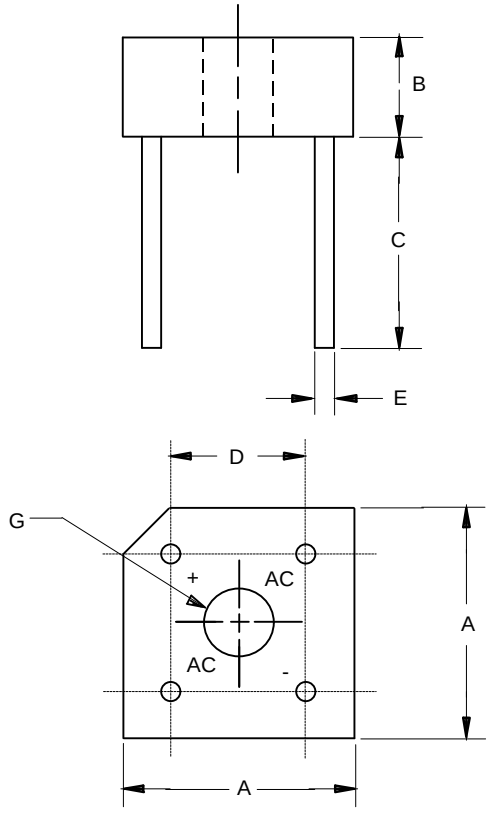
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PB305	PB305	50V	35V	50V
PB31	PB31	100V	70V	100V
PB32	PB32	200V	140V	200V
PB34	PB34	400V	280V	400V
PB36	PB36	600V	420V	600V
PB38	PB38	800V	560V	800V
PB310	PB310	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	T_C = 50°C
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.2V	I_{FM} = 1.5A per element; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10µA 1 mA	T_J = 25°C T_J = 100°C

*Pulse test: Pulse width 300 µsec, Duty cycle 1%

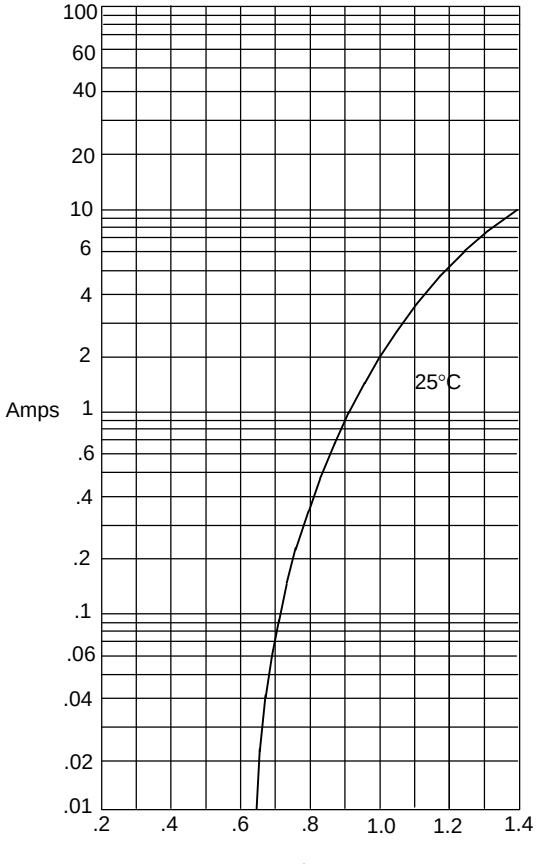
PB-3



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.580	.620	14.69	15.71	2PL
B	.230	.270	5.84	6.86	
C	.750	---	19.00	---	
D	.405	.445	10.29	11.31	2PL
E	.028	.032	0.71	0.81	4PL/TYP
G	.140	.150	3.56	3.81	∅

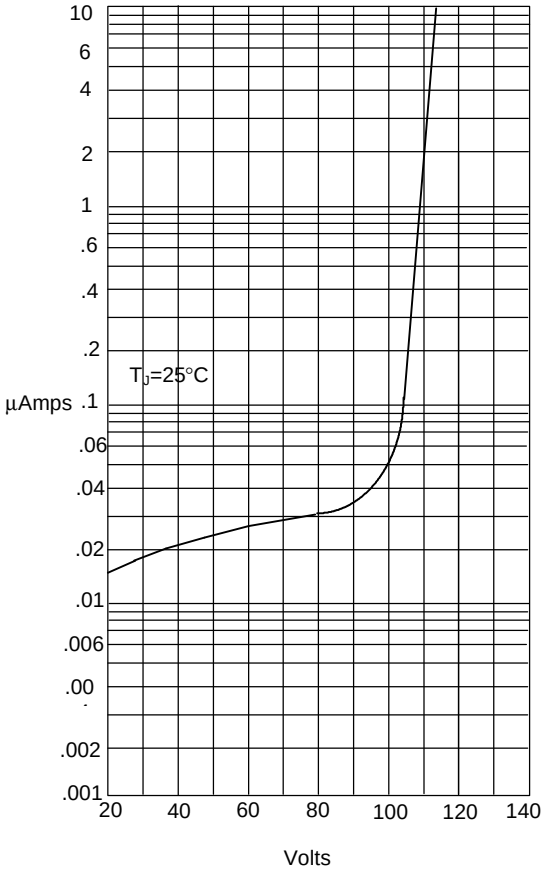
PB305 thru PB310

Figure 1
Typical Forward Characteristics



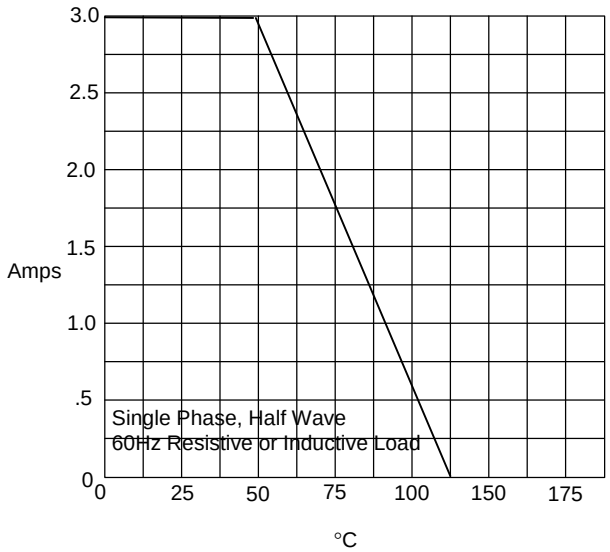
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



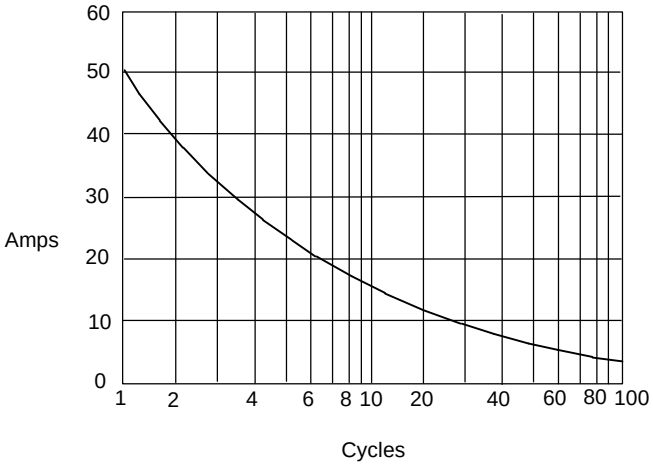
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Maximum Non-Repetitive Forward Surge Current



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