



Micro Commercial Components

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MB251D

Features

- High Conductivity Metal Case
- Any Mounting Position
- Surge Rating Of 300 Amps
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

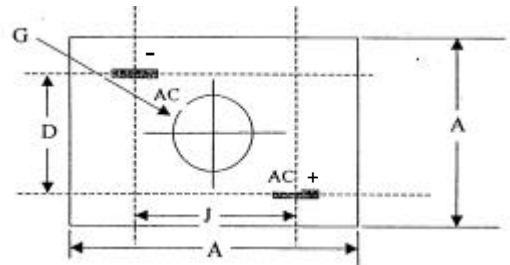
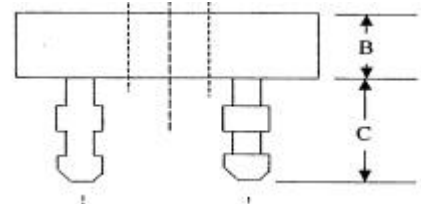
25 Amp Single Phase Bridge Rectifier 110 Volts

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB251D	MB251	110V	77V	110V

MB-35D



Electrical Characteristics @ 25°C Unless Otherwise Specified

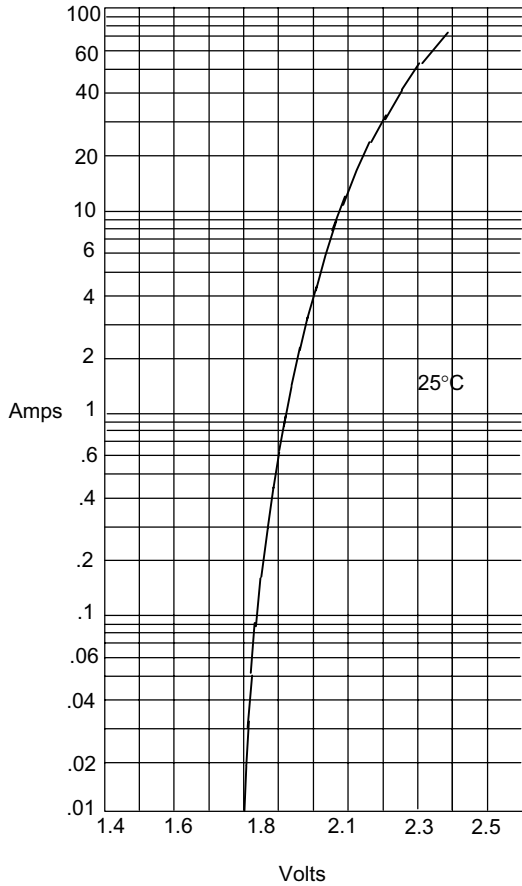
Average Forward Current	$I_{F(AV)}$	25.0A	$T_C = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	2.1V	$I_{FM} = 12.5\text{A}$ per element; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	2 μA	$T_J = 25^\circ\text{C}$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	----	1.142	----	29.00	
B	----	.453	----	11.50	
C	.425	.480	10.80	12.20	
D	.691	.732	17.54	18.60	
G	.188	----	4.77	----	
J	.543	.583	13.80	14.80	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

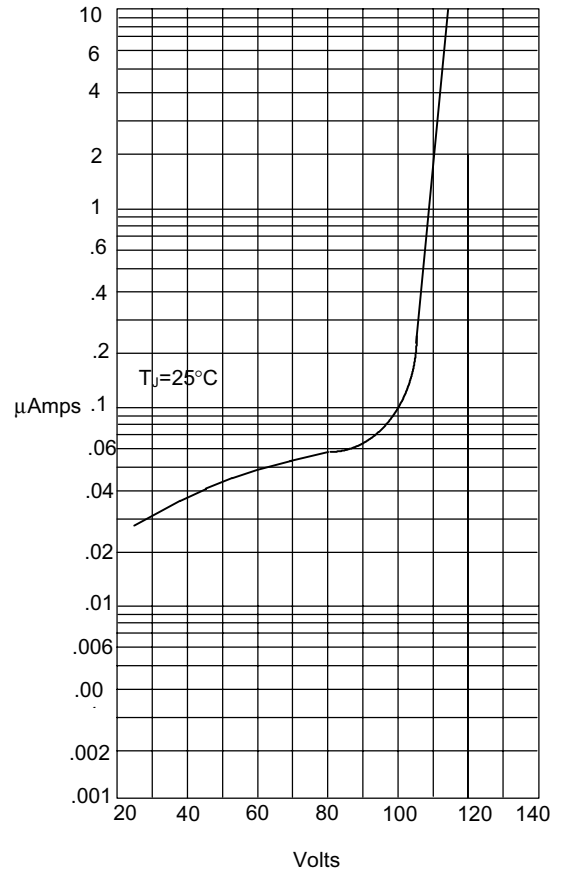
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Figure 1
Typical Forward Characteristics



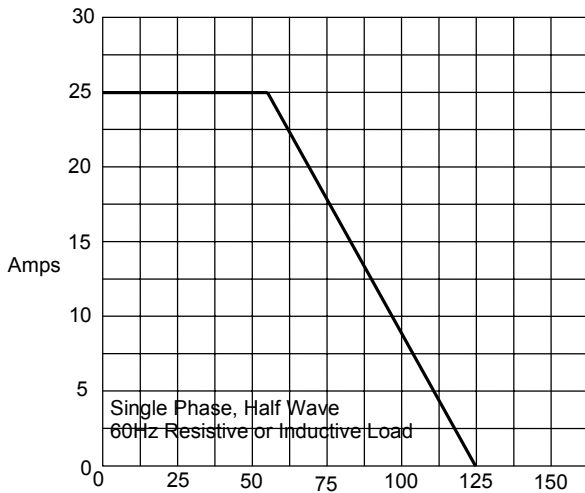
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



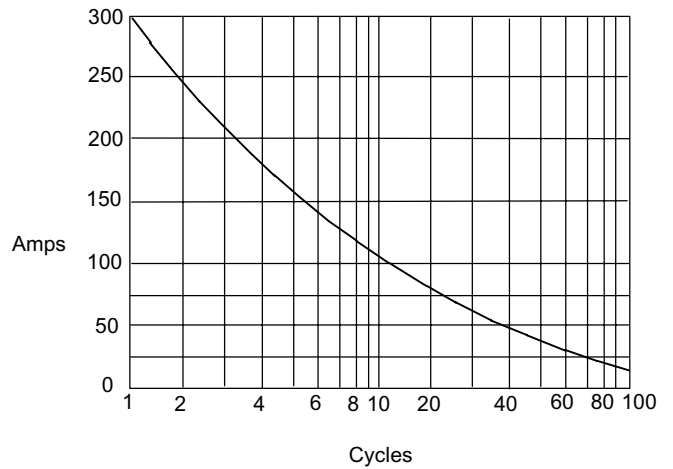
Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus Case 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 (Part Number)-BP	Packing Bulk;50pcs/Box
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