

# M·C·C·

Micro Commercial Components



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)
- Mounting Hole For #8 Screw

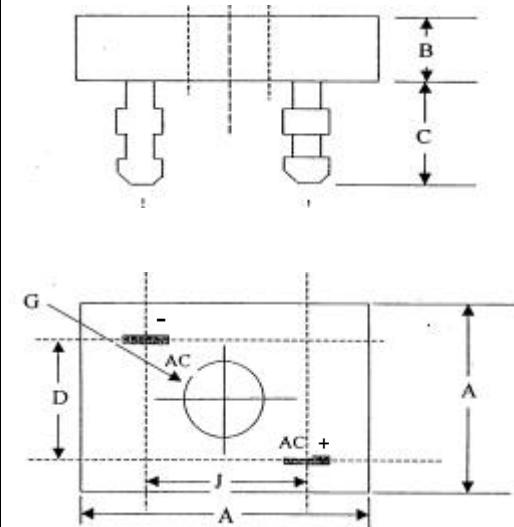
## Maximum Ratings

- Mounting Torque: 5.0 in-lbs Maximum
- 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

## 25 Amp Single Phase Bridge Rectifier 110 Volts

## MB-35D



## Electrical Characteristics @ 25°C Unless Otherwise Specified

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

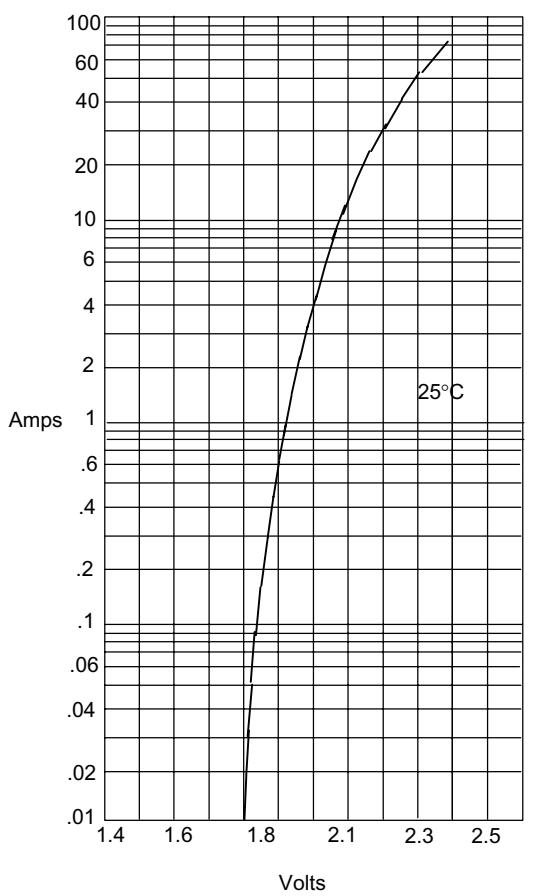
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
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

[www.mccsemi.com](http://www.mccsemi.com)

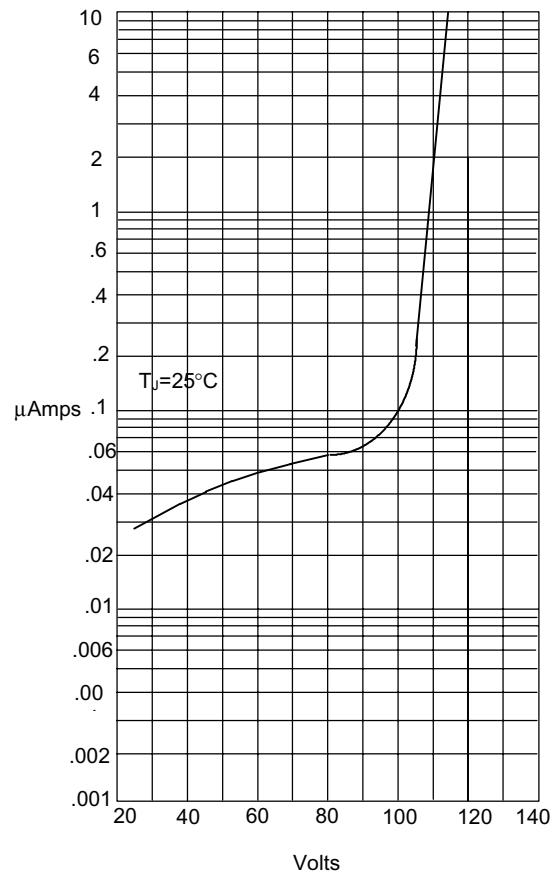
## MB251D

Figure 1  
Typical Forward Characteristics



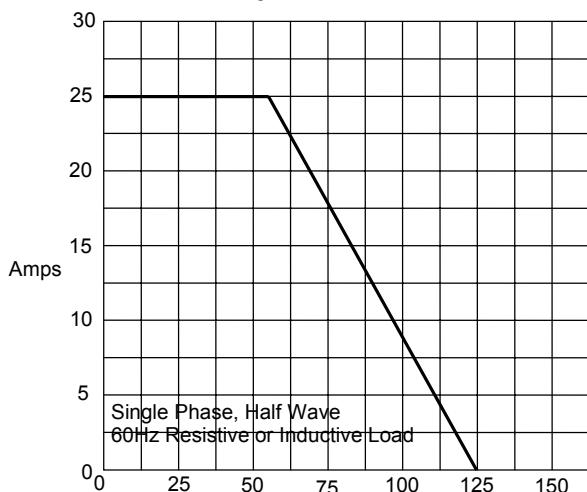
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Micro Commercial Components  
Typical Reverse Characteristics



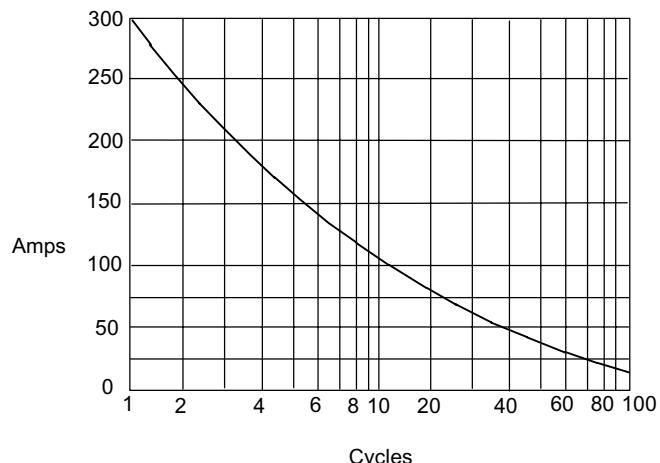
Instantaneous Reverse Leakage Current - MicroAmperes *versus*  
Percent Of Rated Peak Reverse Voltage - Volts

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	Packing
(Part Number)-BP	Bulk;400Pcs/Ctn

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