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[Micro Commercial Components \(MCC\)](#)
[MB251D-BP](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

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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)

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

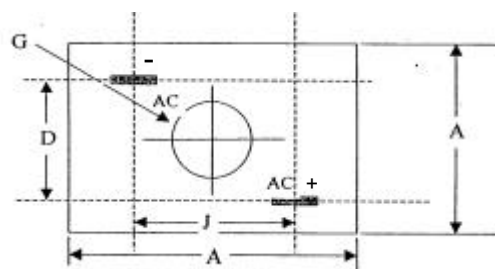
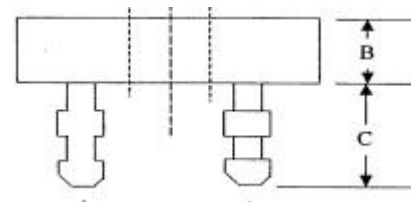
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	2μA	$T_J = 25^\circ\text{C}$

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

25 Amp Single Phase Bridge Rectifier 110 Volts

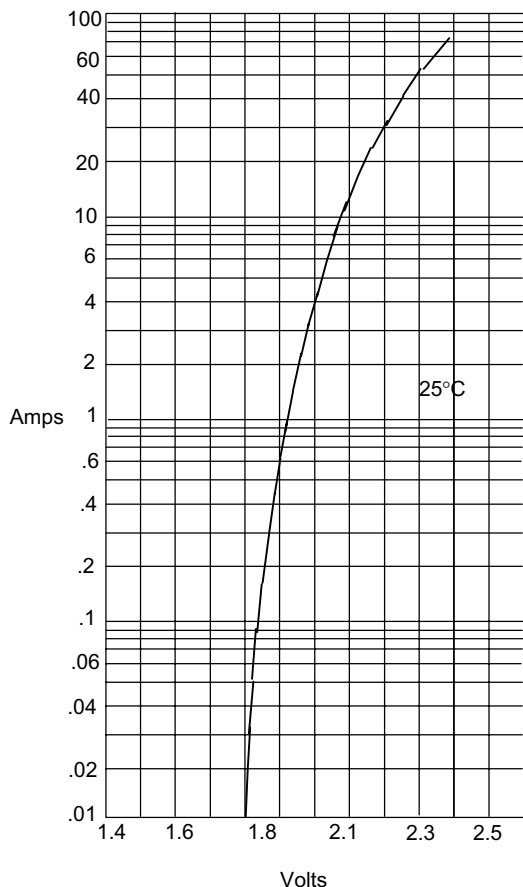
MB-35D



DIM	INCHES		MM		NOTE
	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	

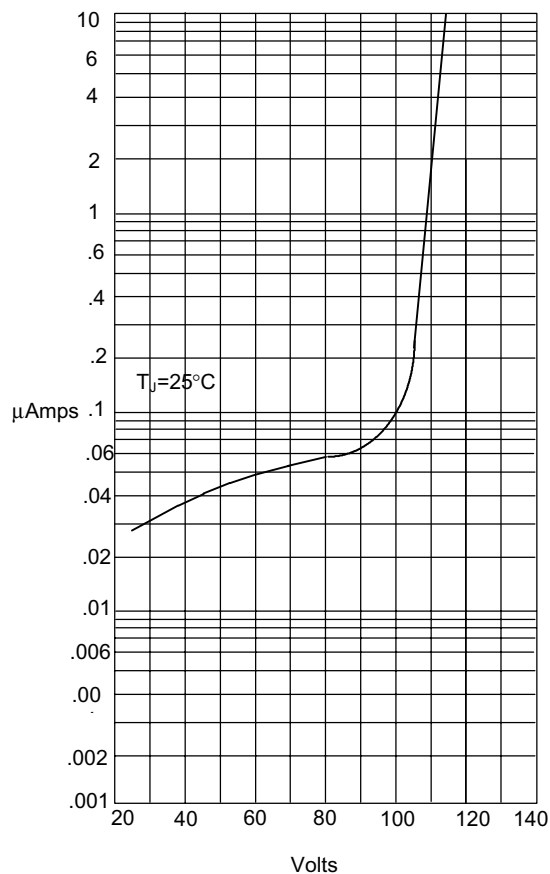
MB251D

Figure 1
Typical Forward Characteristics



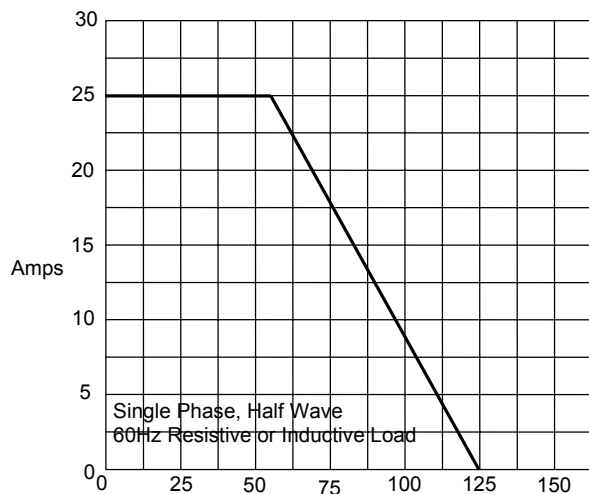
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



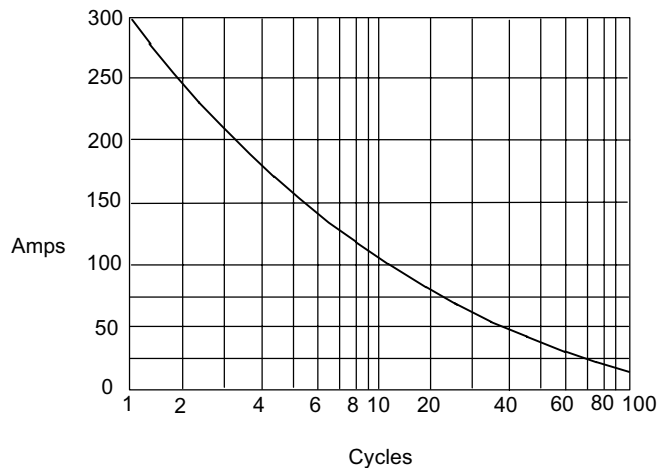
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

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



TM

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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;50pcs/Box

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