

Excellent Integrated System Limited

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[Micro Commercial Components \(MCC\)](#)

[MB251D-BP](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



Micro Commercial Components

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

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

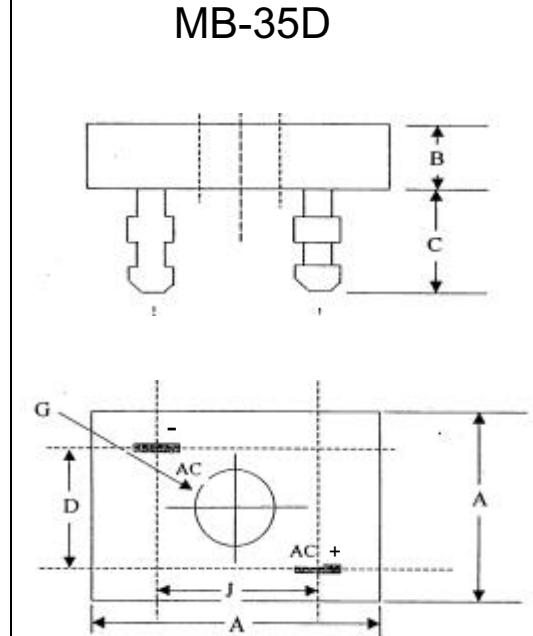
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

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

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 μ A	$T_J = 25^\circ C$

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

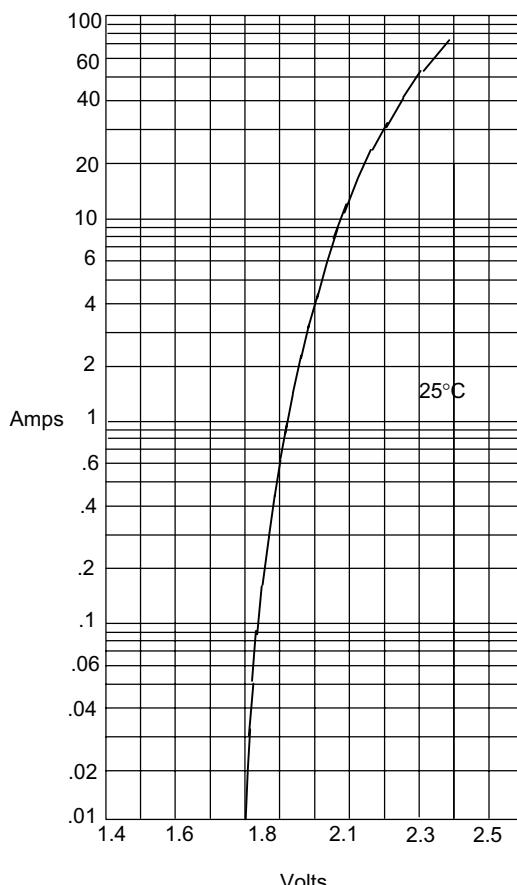


DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	-----	1.142	-----	29.00	
B	-----	.453	-----	11.50	
C	.425	.480	10.80	12.20	
D	.691	.732	17.54	18.60	
G	.188	-----	4.77	-----	
J	.543	.583	13.80	14.80	



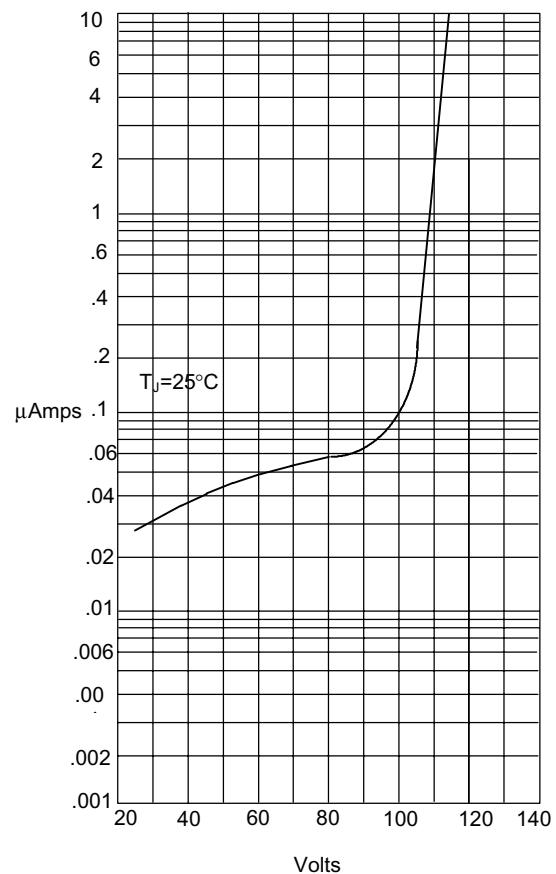
MB251D

Figure 1
Typical Forward Characteristics



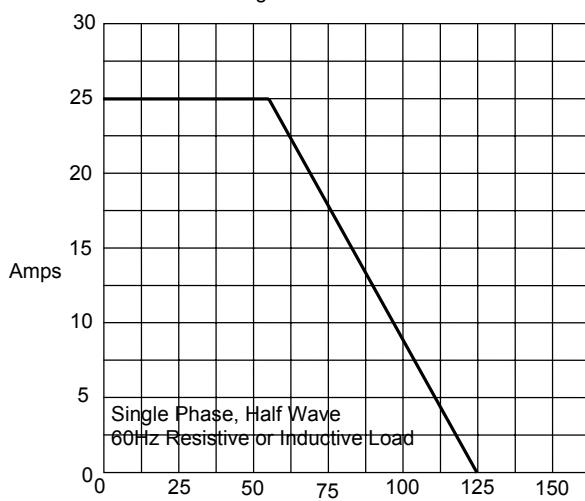
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Micro Commercial Components
Typical Reverse Characteristics



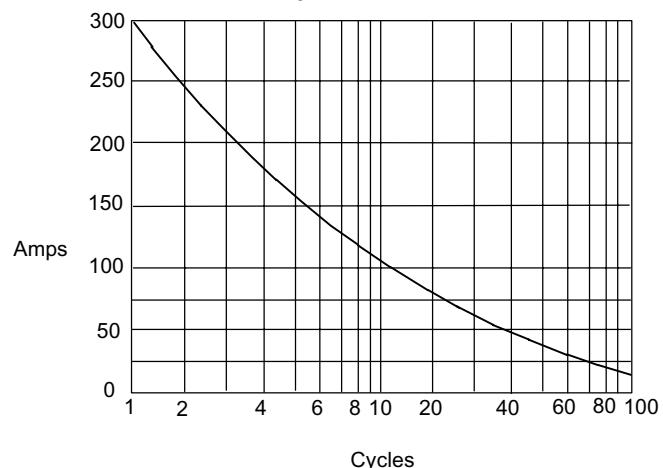
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

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



Micro Commercial Components™

Ordering Information

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

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