

Obsolete

MCC

Micro Commercial Components



Micro Commercial Components
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MB5005
THRU
MB5010

Features

- Halogen free available upon request by adding suffix "-HF"
Case to Terminal Isolation Voltage 2500V (RMS)
High Conductivity Metal Case
Any Mounting Position
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

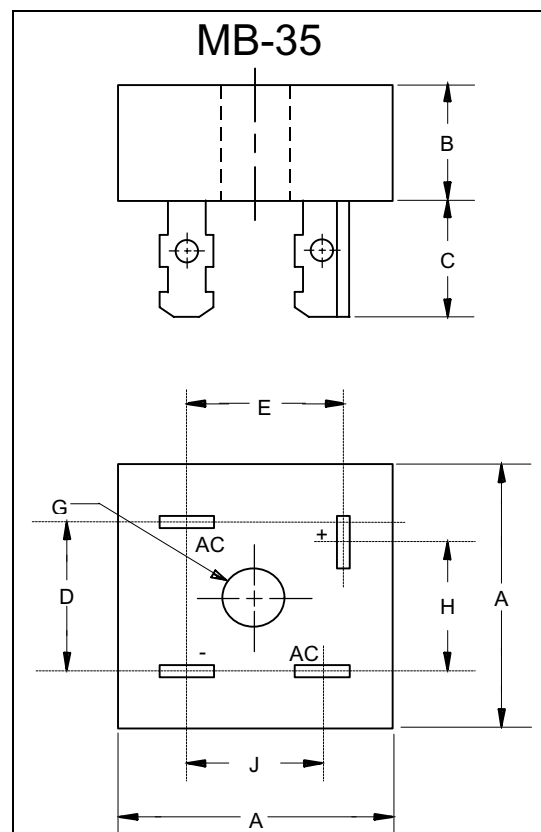
- Mounting Torque: 20 in-lbs Maximum
Surge Rating Of 400 Amps
Mounting Hole For #8 Screw
Operating Temperature: -55°C to +125°C
Storage Temperature: -55°C to +150°C
UL Recognized File # E165989

Table with 5 columns: MCC Catalog Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include MB5005 through MB5010.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Average Forward Current, Peak Forward Surge Current, Maximum Forward Voltage Drop Per Element, Maximum DC Reverse Current At Rated DC Blocking Voltage, and Typical Thermal Resistance Junction to Case.

50 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

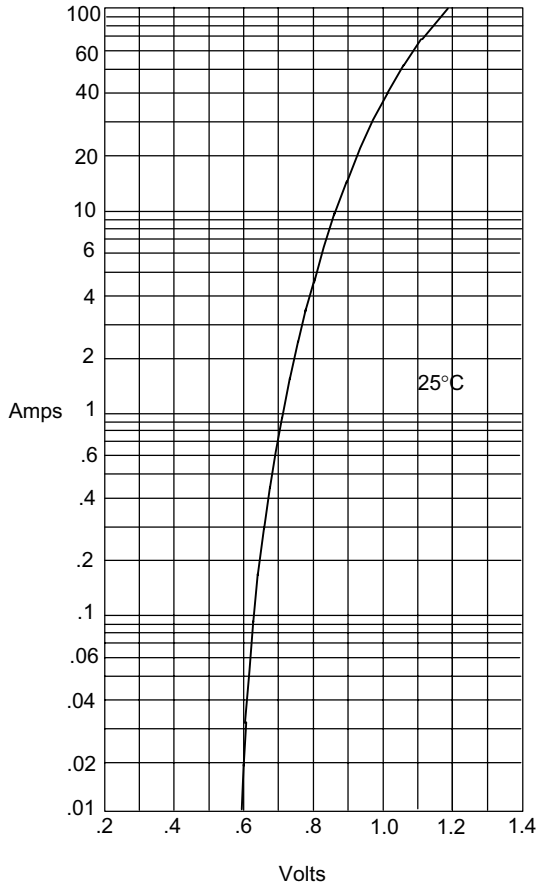


DIMENSIONS table with columns for DIM, INCHES (MIN, MA), MM (MIN, MA), and NOTE. Rows include dimensions A through J.

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
2. Thermal resistance junction to case mounted on heatsink.

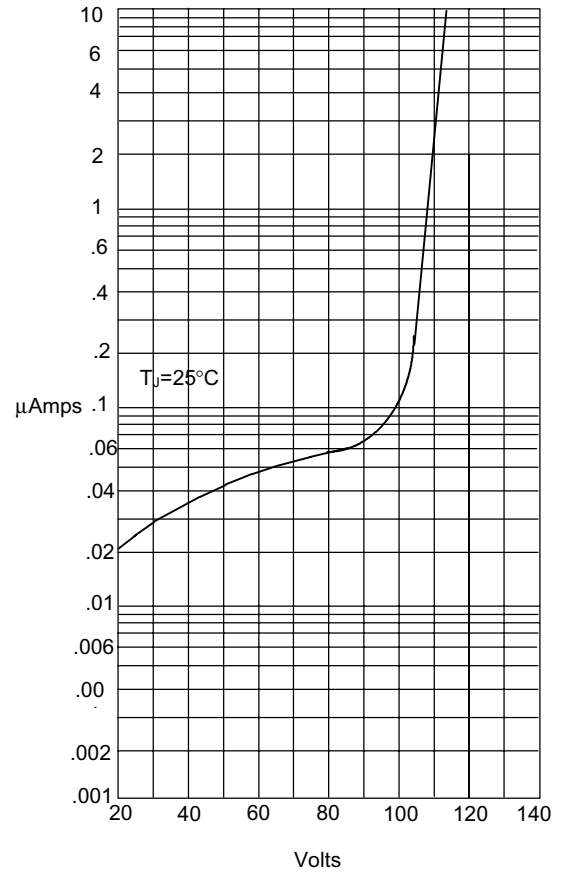
## MB5005 thru MB5010

Figure 1  
Typical Forward Characteristics



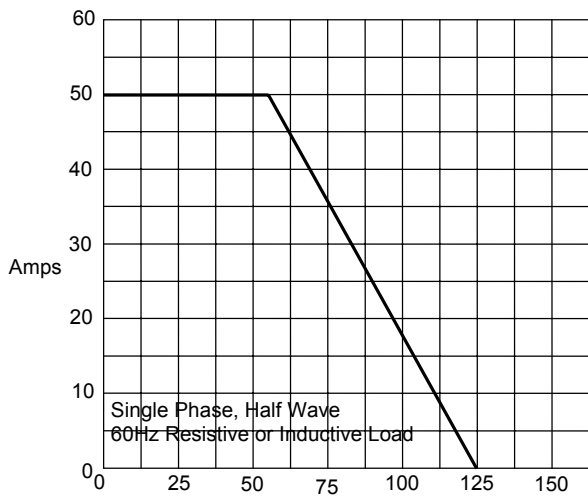
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



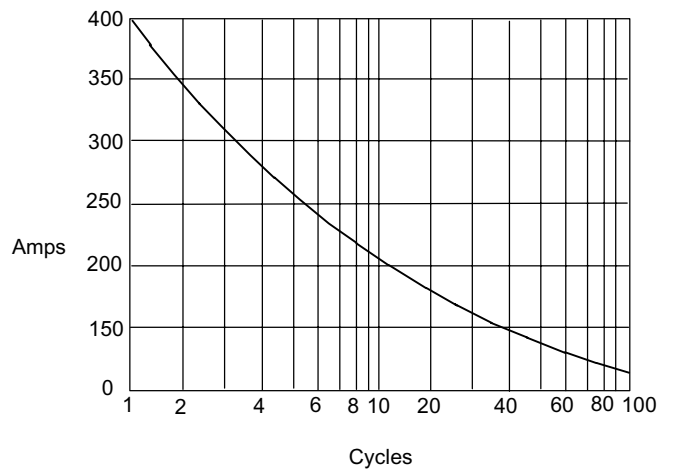
Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3  
Forward Derating Curve



Mounted on a 220x220x50mm ALplate heatsink  
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;400Pcs/Ctn
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Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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