



Micro Commercial Components



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MBRB10100CT

10 Amp Schottky
Barrier Rectifier
100 Volts

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
Metal of Silicon Rectifier, Majority Carrier Conduction
Low Power Loss
High Current Capability, High Efficiency
Halogen free available upon request by adding suffix "-HF"
Guard Ring For Transient Protection
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -50°C to +150°C
Storage Temperature: -50°C to +150°C
Thermal resistance junction to case: 2.5°C/W

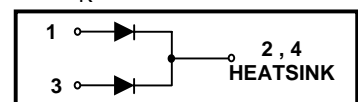
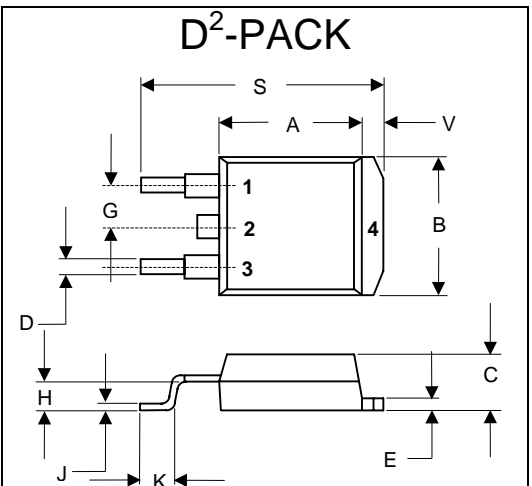
Table with 5 columns: MCC Part Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Row 1: MBRB10100CT, MBRB10100CT, 100V, 70V, 100V

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 Instantaneous Forward Voltage, and Maximum DC Reverse Current At Rated DC Blocking Voltage.

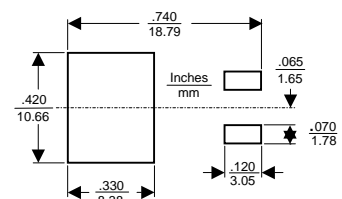
\*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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



DIMENSIONS table with columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A through V.

SUGGESTED SOLDER PAD LAYOUT



# MBRB10100CT

Figure 1  
Typical Forward Characteristics

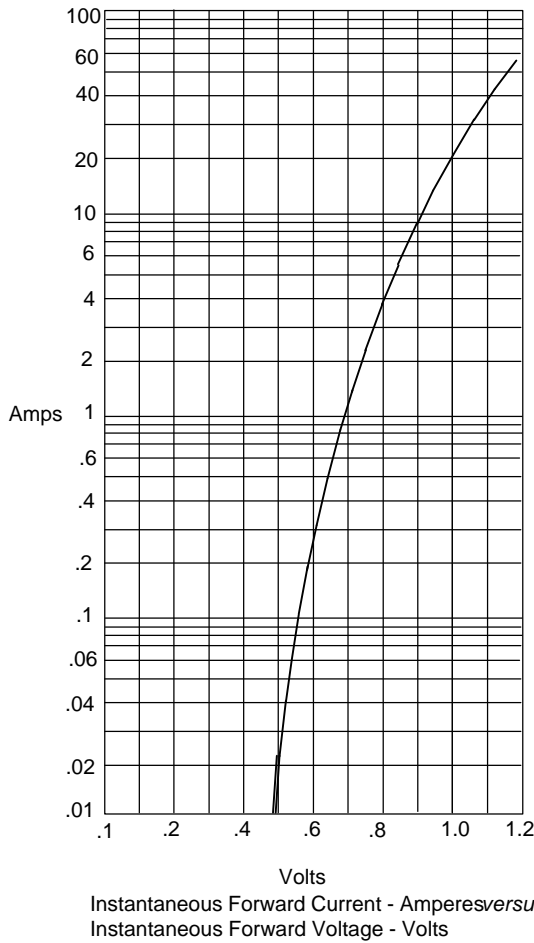


Figure 2  
Typical Reverse Characteristics

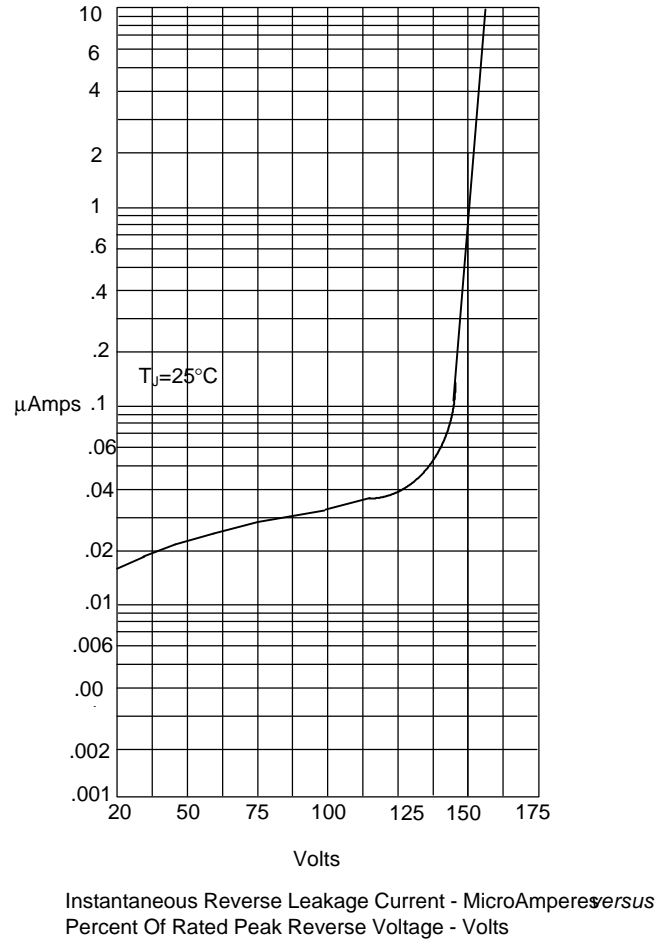


Figure 3  
Forward Derating Curve

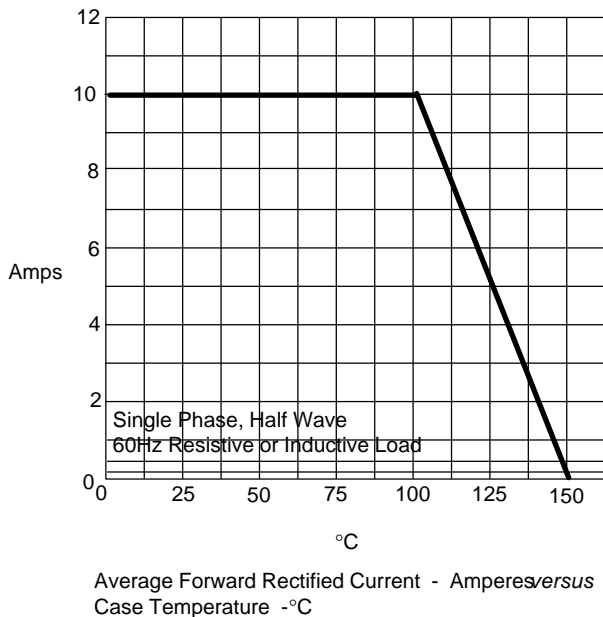
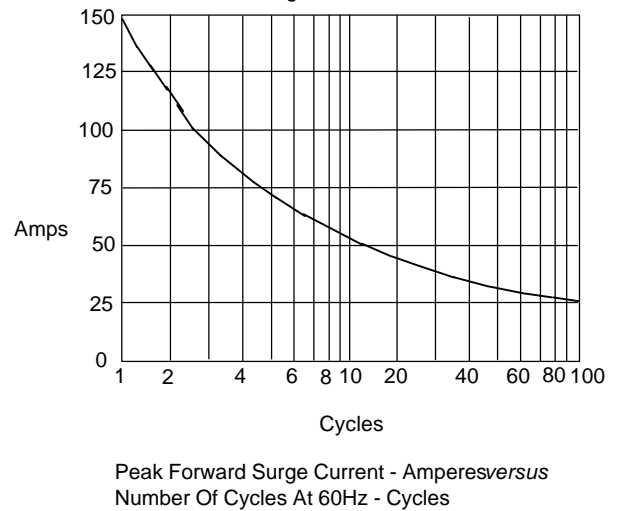


Figure 4  
Peak Forward Surge Current





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### Ordering Information :

Device	Packing
Part Number-BP	Tube: 1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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