



Micro Commercial Components
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MBR10200FCT

Features

- High Junction Temperature Capability
- Low Forward Voltage
- Marking: type number
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Thermal Resistance, Junction to Case per Leg: $R_{thJC}=4.0^{\circ}C/W$
 Junction to Ambient per Leg: $R_{thJA}=4.0^{\circ}C/W$
- Operating Junction Temperature: $-50^{\circ}C$ to $+150^{\circ}C$
- Storage Temperature: $-50^{\circ}C$ to $+150^{\circ}C$

| MCC Catalog Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|--|---------------------|-----------------------------|
| MBR10200FCT | 200V | 140V | 200V |

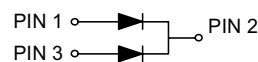
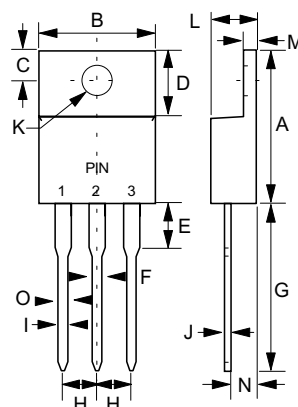
Electrical Characteristics @25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------|---|
| Average Forward Current | $I_{F(AV)}$ | 10 A | $T_C = 100^{\circ}C$ |
| Peak Forward Surge Current | I_{FSM} | 125A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | .92V | $I_F = 5A;$ $T_J = 25^{\circ}C$ |
| | | .82V | $I_F = 5A;$ $T_J = 125^{\circ}C$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 500uA 7mA | $T_J = 25^{\circ}C$ $T_J = 100^{\circ}C$ |

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

10 Amp High Voltage Power Schottky Barrier Rectifier 200 Volts

ITO-220AB

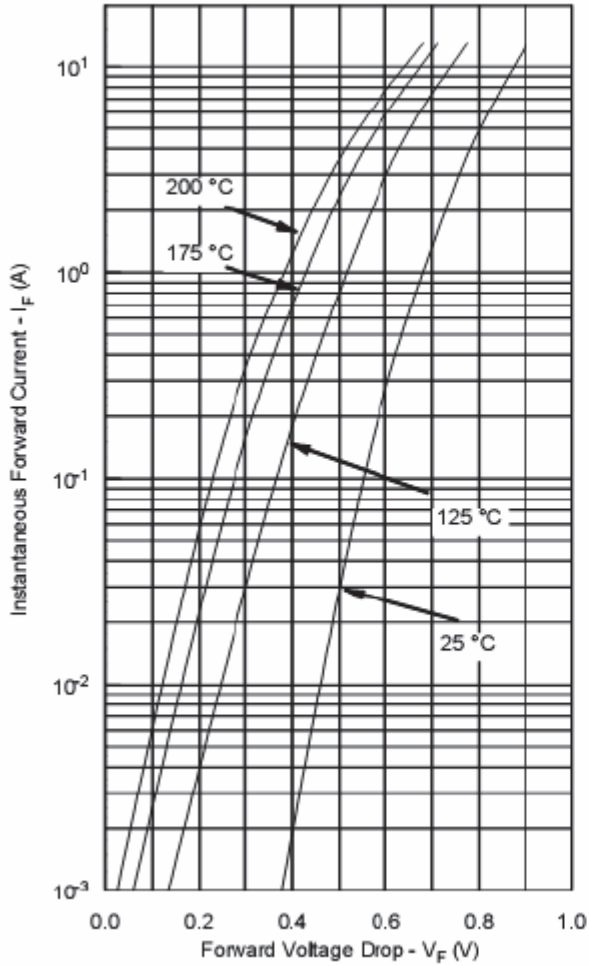


| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .583 | .642 | 14.80 | 16.30 | |
| B | --- | .406 | --- | 10.30 | |
| C | .100 | .112 | 2.55 | 2.85 | |
| D | .248 | .272 | 6.30 | 6.90 | |
| E | --- | .161 | --- | 4.10 | |
| F | --- | .071 | --- | 1.80 | |
| G | .512 | .543 | 13.00 | 13.80 | |
| H | --- | .100 | --- | 2.55 | |
| I | --- | .035 | --- | 0.90 | |
| J | --- | .032 | --- | 0.80 | |
| K | .110 | .134 | 2.80 | 3.40 | ∅ |
| L | --- | .189 | --- | 4.80 | |
| M | --- | .130 | --- | 3.30 | |
| N | .098 | .114 | 2.50 | 2.90 | |
| O | --- | .055 | --- | 1.40 | |

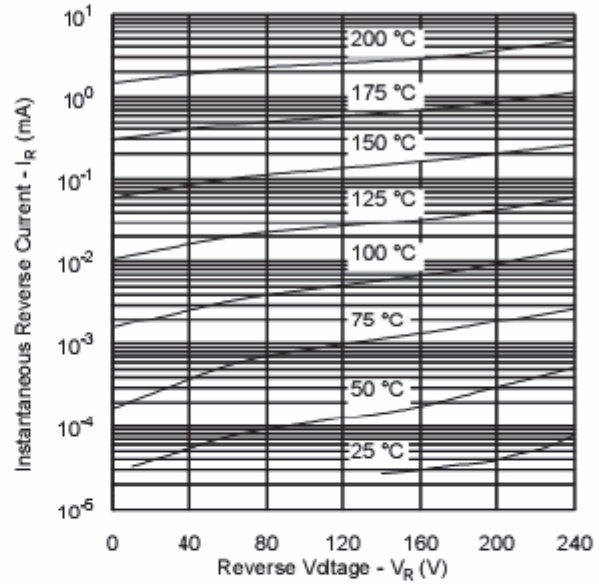
MBR10200FCT

Rating and Characteristic Curves
(Tc=25°C Unless otherwise noted)

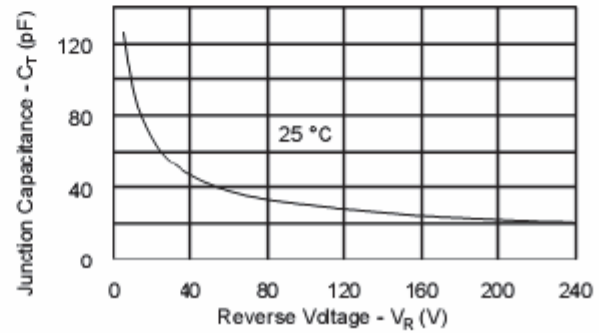
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance





Micro Commercial Components

Ordering Information

| | |
|------------------|----------------|
| Device | Packing |
| (Part Number)-BP | Bulk;1Kpcs/Box |

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