

## Features

- High Junction Temperature Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Leakage Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"

### **Maximum Ratings**

- Operating Junction Temperature Range: 150°C
- Storage Temperature Range: -50°C to +150°C
- Per diodeThermal Resistance 2.2°C/W Junction to Case
- Total Thermal Resistance 1.3°C/W Junction to Case

| MCC<br>Part Number | Device<br>Marking | Maximum<br>Recurrent<br>Peak Reverse<br>Voltage | Maximum<br>RMS<br>Voltage | Maximum<br>DC<br>Blocking<br>Voltage |
|--------------------|-------------------|---|---------------------------|--------------------------------------|
| MBR20150FCT        | MBR20150FCT       | 150V  | 105V                      | 150V                                 |

### Electrical Characteristics @ 25°C Unless Otherwise Specified

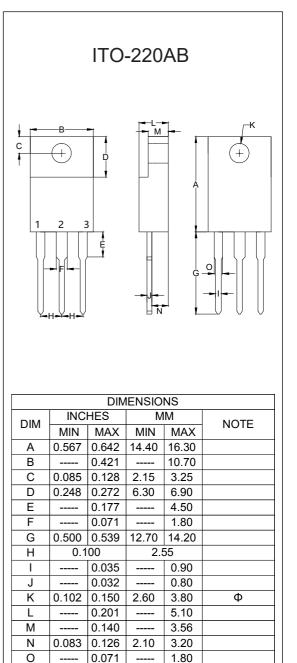
| Average Forward<br>Current                                       | I <sub>F(AV)</sub> | 20A            | T <sub>C</sub> =100⁰C   |
|--|--------------------|----------------|---|
| Peak Forward Surge<br>Current                                    | I <sub>FSM</sub>   | 150A           | 8.3ms,Half Sine Wave  |
| Maximum<br>Instantaneous<br>Forward Voltage                      | V <sub>F</sub>     | 0.92V<br>0.75V | I <sub>FM</sub> =10A<br>T <sub>J</sub> =25°C<br>I <sub>FM</sub> =10A<br>T <sub>J</sub> =125°C |
| Maximum DC<br>Reverse Current at<br>Rated DC Blocking<br>Voltage | I <sub>R</sub>     | 25µA<br>5mA    | Tյ=25⁰C<br>Tյ=125⁰C   |

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

### **Internal Structure**

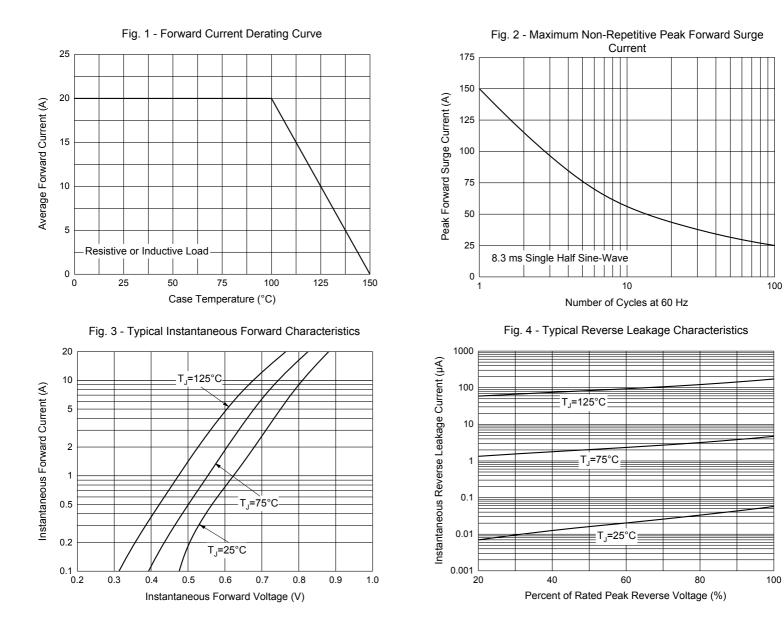


# 20 Amp High Voltage Power Schottky Barrier Rectifier 150 Volts





# **Curve Characteristics**





# **Ordering Information**

| Device         | Packing                                |  |
|----------------|--|--|
| Part Number-BP | Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton |  |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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