

# Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Multilayer Metal -Silicon Potential Structure.
- Low Power Loss, High Efficiency
- High Surge Capacity and High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Junction Temperature Capability

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 0.5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20200PT	MBR20200PT	200V	140V	200V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

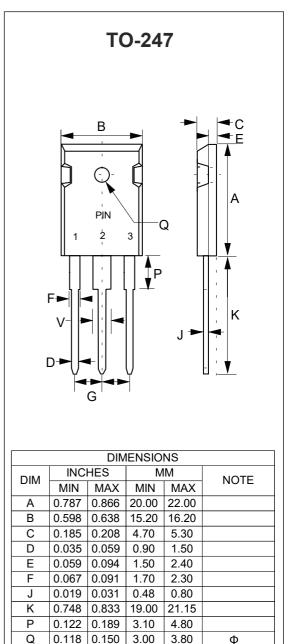
Average Forward Current	I <sub>F(AV)</sub>	20A	T <sub>C</sub> =130°C
Peak Forward Surge Current	I <sub>FSM</sub>	250A	8.3ms,Half Sine Wave
Instantaneous Forward Voltage	V <sub>F</sub>	0.90V(Max) 0.85V(Typ) 0.80V(Max)	I <sub>FM</sub> =10A; T <sub>J</sub> =25°C I <sub>FM</sub> =10A; T <sub>J</sub> =125°C
Maximum Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.01mA 1mA	Tյ=25⁰C Tյ=125⁰C

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

### Internal Structure:

PIN 1 PIN 2 PIN 3 PIN 2





V

G

0.106 0.134

0.197 0.224

2.70

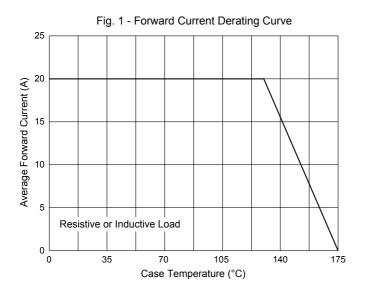
5.00

3.40

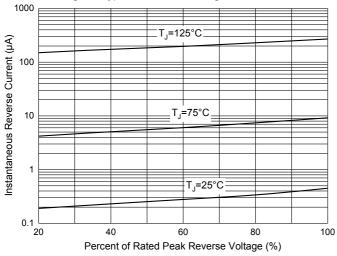
5.70

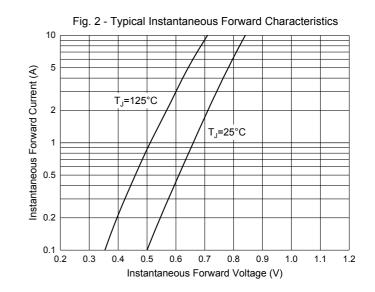


# **Curve Characteristics**











# **Ordering Information**

Device	Packing	
MBR20200PT-BP	Tube:30pcs/Tube, 360pcs/Box,1.8K/Ctn;	

Note : Adding "-HF" Suffix For Halogen Free, eg. MBR20200PT-BP-HF

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