

### **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

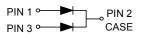
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20150PT	MBR20150PT	150V	105V	150V

# 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>	135A	8.3ms,Half Sine Wave
Instantaneous Forward Voltage	V <sub>F</sub>	0.88V(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 5mA	T <sub>J</sub> =25°C T <sub>J</sub> =125°C

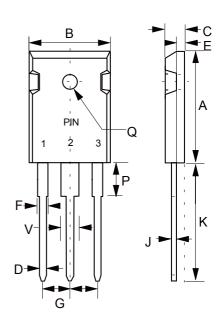
Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

### **Internal Structure:**



# 20 Amp Schottky Barrier Rectifier 150 Volts

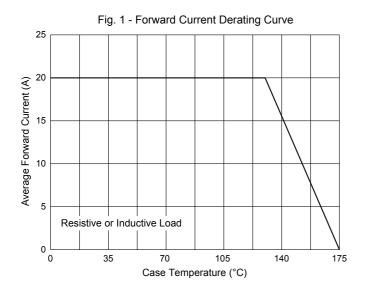
# TO-247

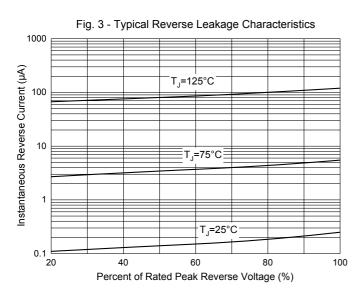


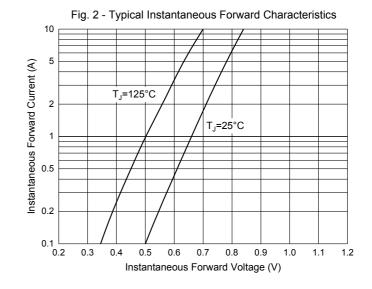
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	0.787	0.866	20.00	22.00	
В	0.598	0.638	15.20	16.20	
С	0.185	0.208	4.70	5.30	
D	0.035	0.059	0.90	1.50	
Е	0.059	0.094	1.50	2.40	
F	0.067	0.091	1.70	2.30	
J	0.019	0.031	0.48	0.80	
K	0.748	0.833	19.00	21.15	
Р	0.122	0.189	3.10	4.80	
Q	0.118	0.150	3.00	3.80	Ф
V	0.106	0.134	2.70	3.40	
G	0.197	0.224	5.00	5.70	



# **Curve Characteristics**









## **Ordering Information**

Device	Packing	
MBR20150PT-BP	Tube:30pcs/Tube, 360pcs/Box,1.8K/Ctn;	

Note: Adding "-HF" Suffix For Halogen Free, eg. MBR20150PT-BP-HF

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