

#### **Features**

- Halogen Free. "Green" Device (Note 1)"
- Low Forward Voltage Drop
- Super Long Operating Life
- Lead Free Finish/RoHS Compliant(Note 2)("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 8 °C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR10U150	10U150	150V	105V	150V

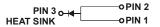
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> =85°C
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms,Half Sine
Forward Voltage Drop	V <sub>F</sub>	0.84V(Max.) 0.79V(Typ.) 0.72V(Max.)	I <sub>F</sub> =10A;T <sub>J</sub> =25°C I <sub>F</sub> =10A;T <sub>J</sub> =25°C I <sub>F</sub> =10A; T <sub>J</sub> =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA 20mA	T <sub>J</sub> =25°C T <sub>J</sub> =125°C

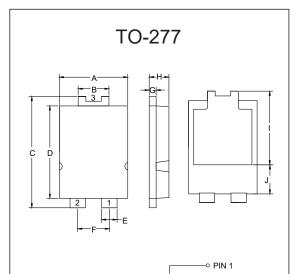
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

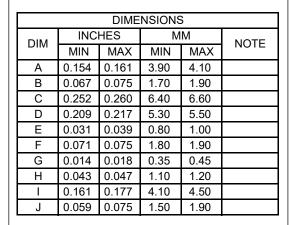
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

#### **Internal Structure**



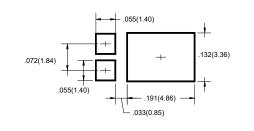
# 10 Amp Schottky Barrier Rectifier 150 Volts





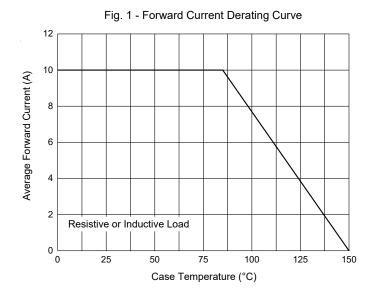
→ PIN 2

#### Suggested Solder Pad Layout



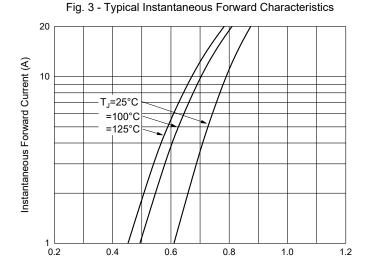


### **Curve Characteristics**

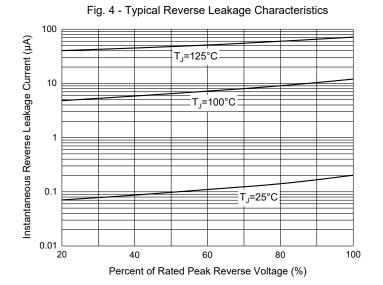


250
(V) 200
150
150
8.3 ms Single Half Sine-Wave
0
1 10 100
Number of Cycles at 60 Hz

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current



Instantaneous Forward Voltage (V)





## **Ordering Information**

Device	Packing
MBR10U150-TP	Tape&Reel:4Kpcs/Reel

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