

## Features

- Halogen Free. "Green" Device (Note 1)
- High Surge Forward Current Capability
- Low Power Loss, High Efficiency
- 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
- 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: 8.0 °C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage	
MBR10U100H	10U100H	100V	70V	100V	

## Electrical Characteristics @ 25°C Unless Otherwise Specified

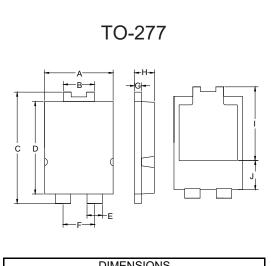
Average Forward Current	I <sub>F(AV)</sub>	10A	Tc = 110°C
Peak Forward Surge Current	I <sub>FSM</sub>	240A	8.3ms,Half Sine
Forward Voltage	V <sub>F</sub>	0.77V(Typ) 0.85V(Max) 0.64V(Typ) 0.72V(Max)	I <sub>F</sub> =10A T <sub>J</sub> =25°C I <sub>F</sub> =10A T <sub>J</sub> =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.01mA 1mA	Tյ=25⁰C Tյ=125⁰C
Reverse Breakdown Voltage	$V_{BR}$	100V(Min)	I <sub>R</sub> =0.5mA
Current Squared Time		239 A <sup>2</sup> s	1ms≤t<8.3ms T <sub>J</sub> =25⁰C
Typical Junction Capacitance	CJ	320pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine,</li>
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</li>
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

## **Internal Structure**

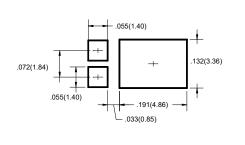
PIN 3 out	•PIN 2
HEAT SINK	• PIN 1

# 10 Amp Schottky Barrier Rectifier 100 Volts



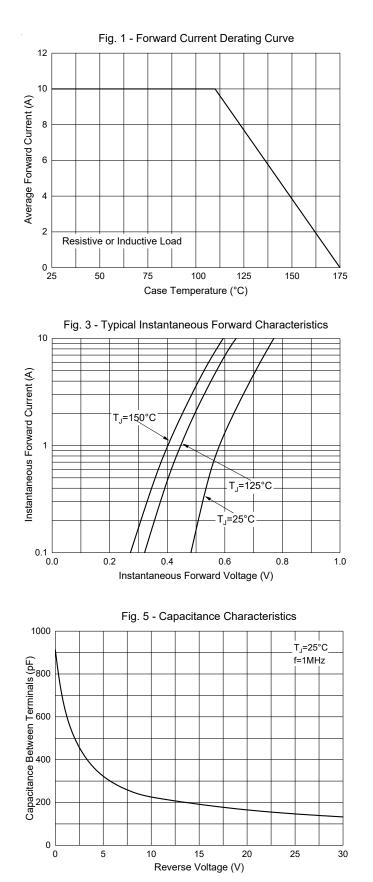
	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.154	0.161	3.90	4.10	
В	0.067	0.075	1.70	1.90	
С	0.252	0.260	6.40	6.60	
D	0.209	0.217	5.30	5.50	
E	0.031	0.039	0.80	1.00	
F	0.071	0.075	1.80	1.90	
G	0.014	0.018	0.35	0.45	
Н	0.043	0.047	1.10	1.20	
	0.161	0.177	4.10	4.50	
J	0.059	0.075	1.50	1.90	

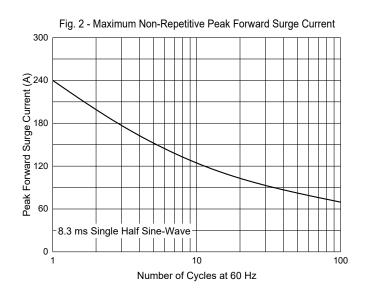
#### Suggested Solder Pad Layout

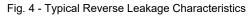


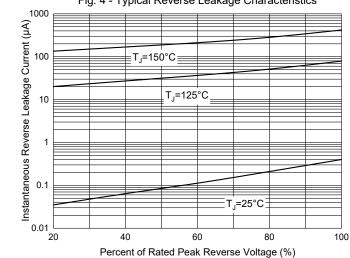


# **Curve Characteristics**













# **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 4Kpcs/Reel	

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