

## 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 +175°C
- Storage Temperature Range: -55°C to +175°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
MBR10U200	10U200	200V	140V	200V

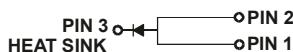
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10A	$T_c = 105^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	240A	8.3ms, Half Sine
Forward Voltage Drop	$V_F$	0.90V(Max.) 0.82V(Typ.) 0.75V(Max.)	$I_F=10\text{A}; T_J=25^\circ\text{C}$ $I_F=10\text{A}; T_J=25^\circ\text{C}$ $I_F=10\text{A}; T_J=125^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5 $\mu\text{A}$ 0.5mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	230pF	Measured at 1.0MHz $V_R=4.0\text{V}$

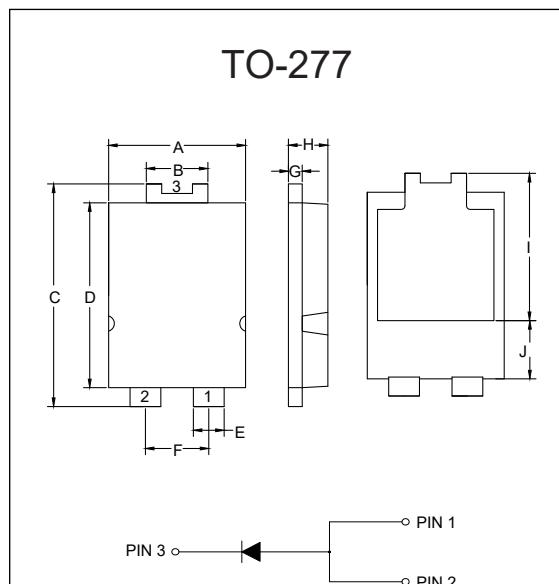
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

## Internal Structure

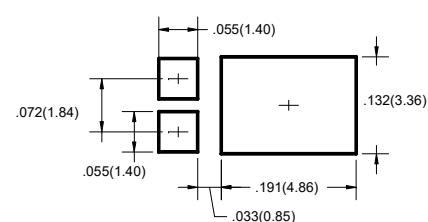


# 10 Amp Schottky Barrier Rectifier 200 Volts



DIM	DIMENSIONS				NOTE	
	INCHES		MM			
	MIN	MAX	MIN	MAX		
A	0.154	0.161	3.90	4.10		
B	0.067	0.075	1.70	1.90		
C	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		
H	0.043	0.047	1.10	1.20		
I	0.161	0.177	4.10	4.50		
J	0.059	0.075	1.50	1.90		

## Suggested Solder Pad Layout



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

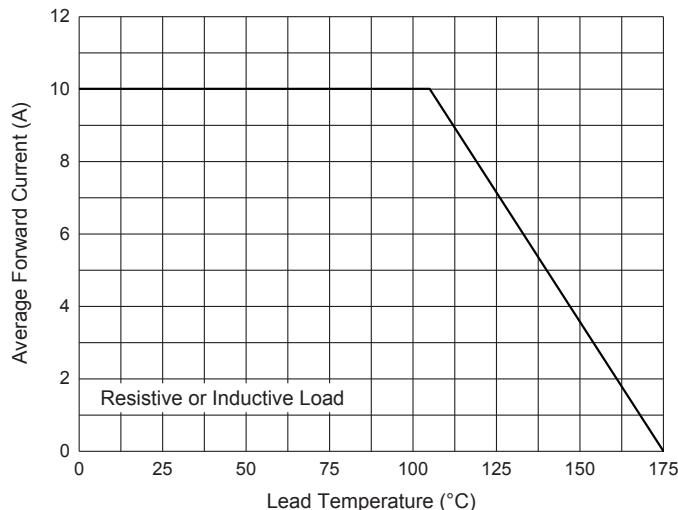


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

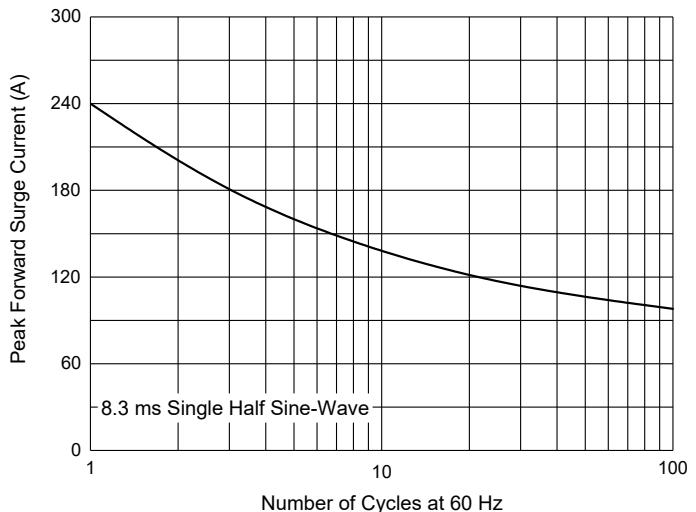


Fig. 3 - Typical Instantaneous Forward Characteristics

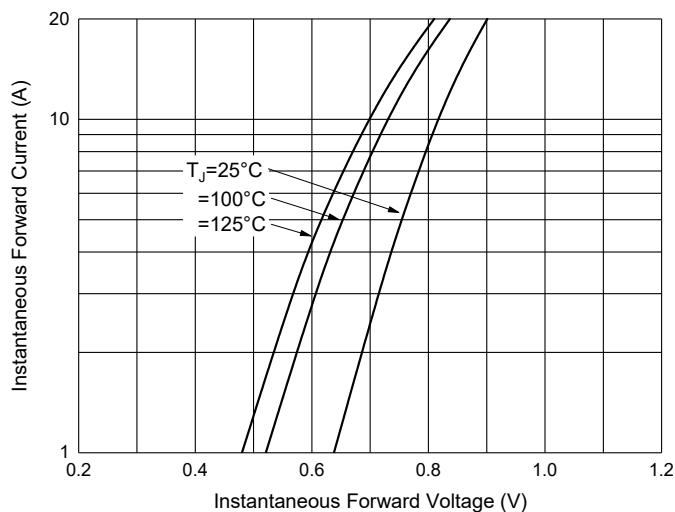
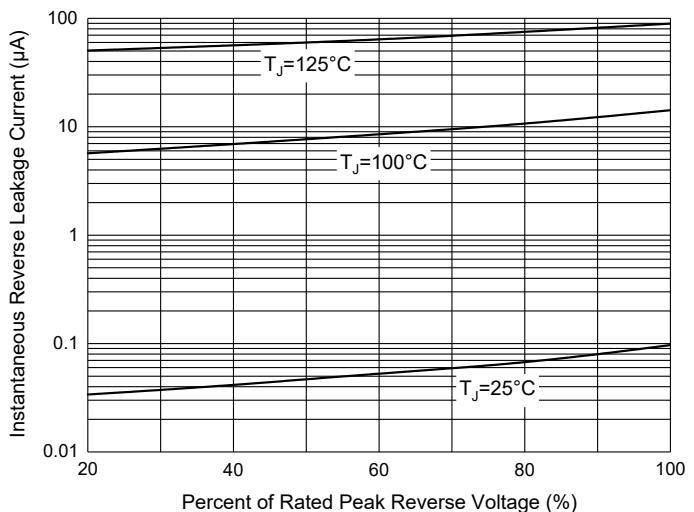


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
MBR10U200-TP	Tape&Reel:4Kpcs/Reel

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