

Features

- Halogen Free. "Green" Device (Note 1)"
- AEC-Q101 Qualified
- 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	Maximum DC Blocking Voltage
MBR10U200HE3	10U200	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10A	T _c = 105°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine
Forward Voltage Drop	V _F	0.95V(Max.) 0.85V(Typ.) 0.85V(Max.)	I _F =10A;T _J =25°C I _F =10A;T _J =25°C I _F =10A; T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	100μA 20mA	$T_{\rm J} = 25^{\rm o}$ C $T_{\rm J} = 125^{\rm o}$ C
Typical Junction Capacitance	С	160pF	Measured at 1.0MHz V _R =4.0V

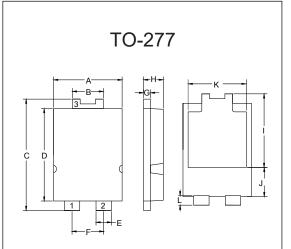
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

Internal Structure

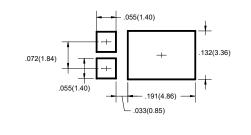


10 Amp Schottky Barrier Rectifier 200 Volts



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	
Е	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	
1	0.161	0.177	4.10	4.50	
J	0.059	0.075	1.50	1.90	
K	0.114	0.134	2.90	3.40	
L	0.022	0.030	0.55	0.75	

Suggested Solder Pad Layout





Curve Characteristics

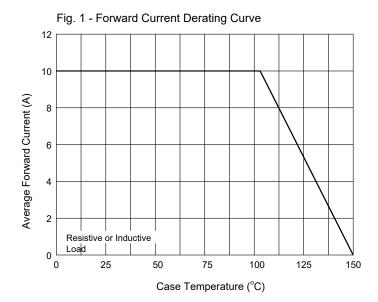


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

250

200

150

8.3 ms Single Half Sine-Wave

0

1 10 100

Number of Cycles at 60 Hz



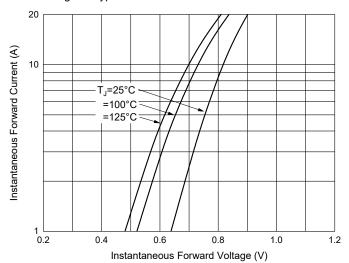
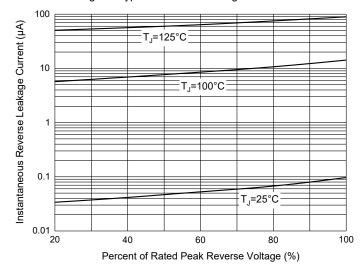


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
MBR10U200HE3-TP	Tape&Reel:4Kpcs/Reel	

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Rev.3-2-10182022 3/3 MCCSEMI.COM