

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°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
MBR15U100	15U100	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	15A	Tc = 110°C
Peak Forward Surge Current	I _{FSM}	275A	8.3ms,Half Sine
Forward Voltage	V _F	0.80V(Typ) 0.85V(Max) 0.75V(Typ) 0.80V(Max)	I _F =15A T _J =25°C I _F =15A T _J =125°C
Reverse Current	I _R	0.1mA(Max) 10mA(Max)	V _R =100; T _J =25°C V _R =100; T _J =125°C
Reverse Breakdown Voltage	V_{BR}	100V(Min)	I _R =0.5mA
Current Squared Time	I ² T	313 A ² s	1ms≤t<8.3ms T _J =25°C

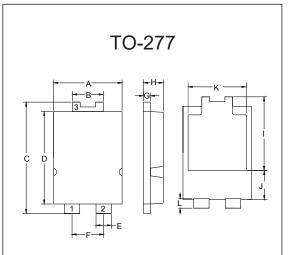
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

Internal Structure

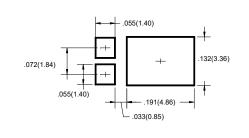


15 Amp Schottky Barrier Rectifier 100 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	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			
I	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

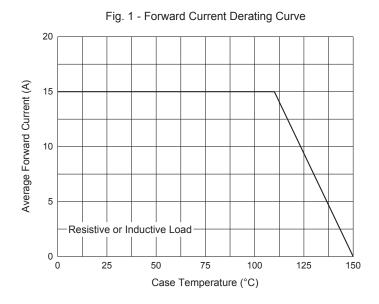


Fig. 3 - Typical Instantaneous Forward Characteristics

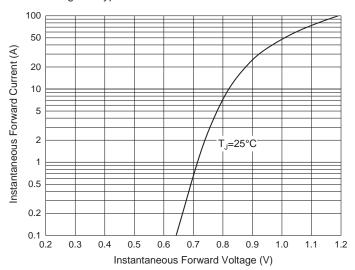


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

360

300

240

180

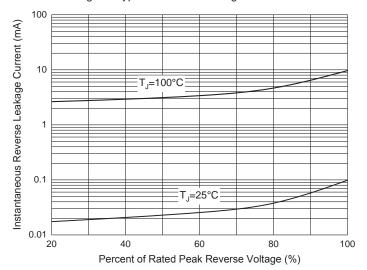
120

8.3 ms Single Half Sine-Wave

0

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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