

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
- Typical Thermal Resistance: 60 °C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR15U100L	15U100L	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

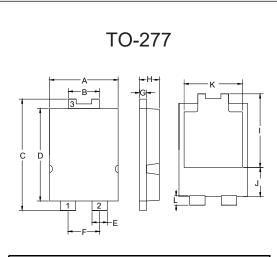
Average Forward Current	I _{F(AV)}	15A	Tc = 100°C	
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine	
Forward Voltage	V _F	0.69V(Typ) 0.82V(Max) 0.60V(Typ) 0.72V(Max)	I _F =15A T _J =25⁰C I _F =15A T _J =125⁰C	
Reverse Current	I _R	0.2mA(Max) 20mA(Max)	V _R =100; T _J =25⁰C V _R =100; T _J =125⁰C	
Reverse Breakdown Voltage	V _{BR}	100V(Min)	I _R =0.5mA	
Current Squared Time	l ² T	166 A²s	1ms≤t<8.3ms T _J =25⁰C	

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

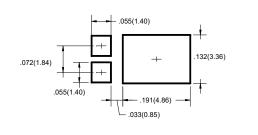
PIN 3 o de la composición de

15 Amp Schottky Barrier Rectifier 100 Volts



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
А	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		
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

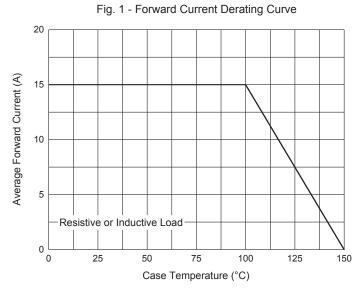
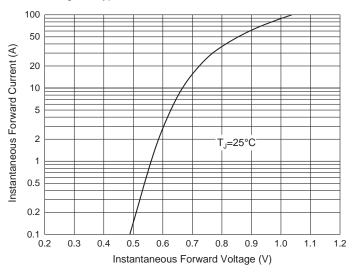


Fig. 3 - Typical Instantaneous Forward Characteristics



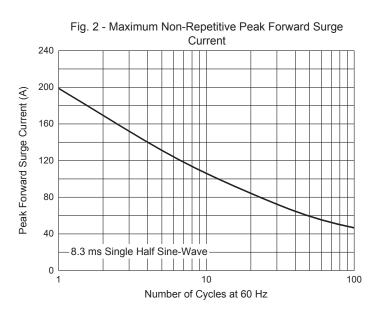
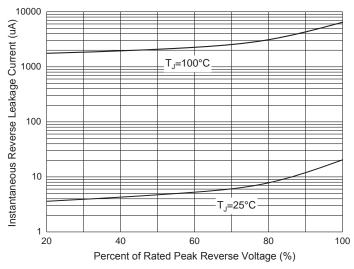
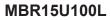


Fig. 4 - Typical Reverse Leakage Characteristics







Ordering Information

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

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