

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
- Maximum thermal Resistance:8.0 °C/W Junction to Case

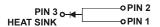
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR15U45	15U45	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

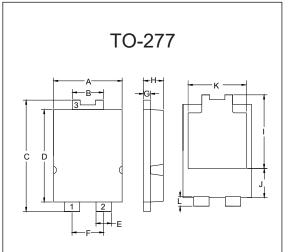
	_		•
Average Forward Current	Io	15A	Tc = 90°C
Peak Forward Surge Current	I _{FSM}	275A	8.3ms,Half Sine
Forward Voltage	V _F	0.43V(Typ) 0.47V(Max) 0.37V(Typ) 0.40V(Max)	I _F =15A T _J =25°C I _F =15A T _J =125°C
Reverse Current	I _R	0.5mA(Max) 100mA(Max)	V _R =45; T _J =25°C V _R =45; T _J =125°C
Reverse Breakdown Voltage	V_{BR}	45V(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.

Internal Structure

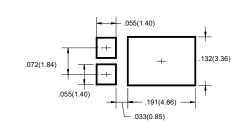


15 Amp Schottky Barrier Rectifier 45 Volts



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		
- 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



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



Curve Characteristics

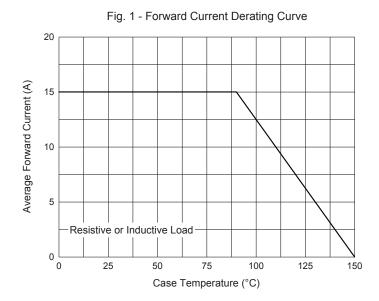
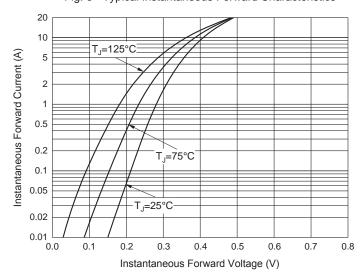


Fig. 3 - Typical Instantaneous Forward Characteristics



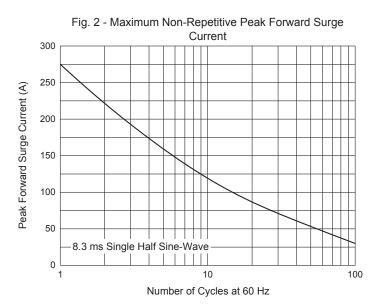
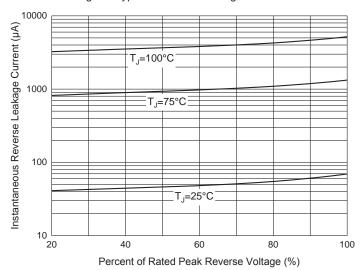


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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