

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	iviaximum	Maximum DC Blocking Voltage
MBR5U100	5U100	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	5A	Tc = 125°C
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine
Forward Voltage	V _F	0.45V(Typ.) 0.51V(Max.) 0.54V(Typ.) 0.60V(Max.)	I_F =3A T_J =25°C I_F =5A T_J =25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA 20mA	T _J =25°C T _J =100°C
Reverse Breakdown Voltage	V_{BR}	100V(Min.)	I _R =0.5mA
Current Squared Time	I ² T	60 A ² s	1ms≤t<8.3ms T _J =25°C

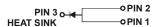
Notes:

1. Halogen free "Green" products are defined as those which contain <900 ppm bromine,

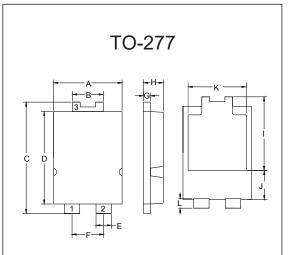
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

Internal Structure

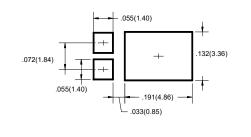


5 Amp Trench Schottky Barrier Rectifier 100 Volts



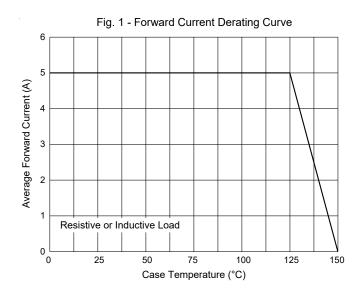
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.154	0.161	3.90	4.10			
В	0.067	0.075	1.70	1.90			
С	0.252	0.260	6.40	6.60			
D	0.209	0.217	5.30	5.50			
Е	0.031	0.039	0.80	1.00			
F	0.071	0.075	1.80	1.90			
G	0.014	0.018	0.35	0.45			
Н	0.043	0.047	1.10	1.20			
- 1	0.161	0.177	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			

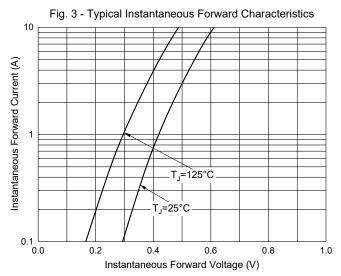
Suggested Solder Pad Layout

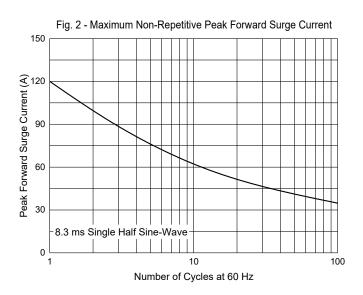


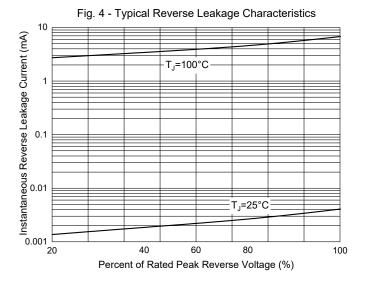


Curve Characteristics











Ordering Information

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

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