

Features

- Halogen Free. "Green" Device (Note 1)
- Low Forward Voltage Drop
- Excellent High Temperature Stability
- 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: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Maximum Thermal Resistance: 60°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
MBR510LPS	510L	100V	70V	100V

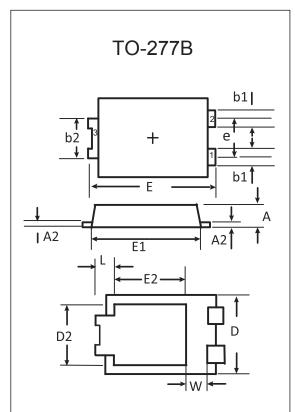
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	5.0A	T _C = 110°C		
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine		
Maximum Forward Voltage Drop Per Element	V _F	0.72V 0.60V	I _F =5.0A; T _A =25°C I _F =5.0A; T _A =125°C		
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 100mA	T _A =25°C T _A =125°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

5.0 Amp Low VF Schottky Barrier Rectifier 100 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.039	0.047	1.00	1.20			
A2	0.006	0.017	0.15	0.43			
b1	0.030	0.041	0.75	1.05			
b2	0.065	0.077	1.65	1.95			
D	0.148	0.169	3.75	4.30			
D2	0.110	0.126	2.80	3.20			
E	0.250	0.264	6.35	6.70			
е	0.065	0.077	1.65	1.95			
E1	0.207	0.228	5.25	5.80			
E2	0.120	0.142	3.05	3.60			
L	0.028	0.051	0.70	1.30			
W	0.031	0.056	0.80	1.42			

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



Curve Characteristics

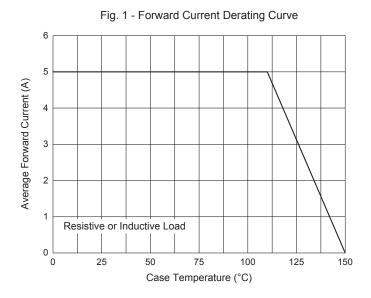


Fig. 3 - Typical Reverse Leakage Characteristics

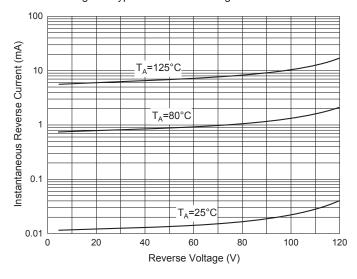
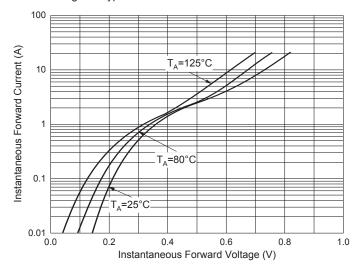


Fig. 2 - Typical Instantaneous Forward Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel:5Kpcs/Reel	

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