

### **Features**

- Halogen Free. "Green" Device (Note 1)
- Low Forward Voltage Drop
- Super Long Operating Life
- 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: 60°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR860ULPS	860UL	60V	42V	60V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

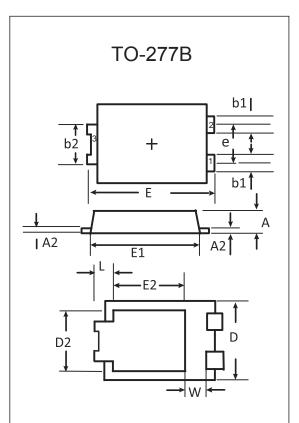
Average Forward Current	I <sub>F(AV)</sub>	8.0A	T <sub>C</sub> = 115°C
Peak Forward Surge Current	I <sub>FSM</sub>	275A	8.3ms,Half Sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	0.43V(Typ) 0.53V(Max)	I <sub>FM</sub> =8.0A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.6mA	T <sub>J</sub> =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**



# 8 Amp Low VF Schottky Barrier Rectifier 60 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	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		
Е	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		

<sup>2.</sup> High Temperature Solder Exemption Applied, see EU Directive Annex 7a.



## **Curve Characteristics**

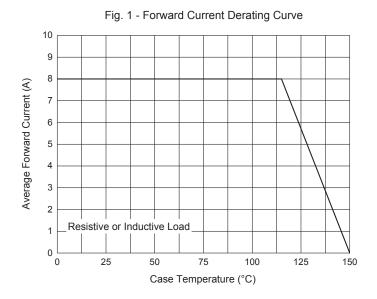
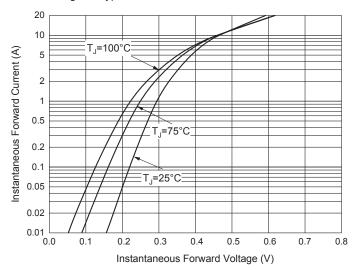


Fig. 3 - Typical Instantaneous Forward Characteristics



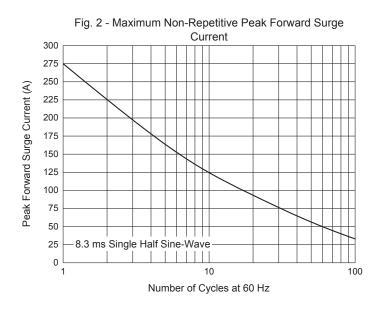
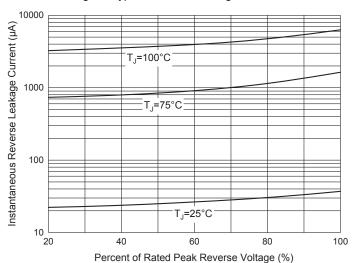


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

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

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