



Micro Commercial Components

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# MBR1550ULPS

**15 Amp  
Schottky Barrier  
Rectifier  
50 Volts**

## Features

- Halogen free available upon request by adding suffix "-HF"
- Low forward voltage drop
- Super long operating life
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

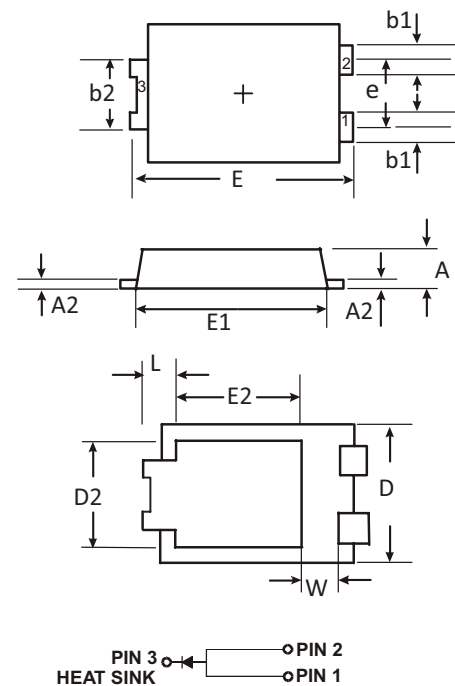
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1550ULPS	1550U	50V	35V	50V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15A	$T_L = 125^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	320A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	.47V .41V	$I_F=15\text{A}; T_a=25^\circ\text{C}$ $I_F=15\text{A}; T_a=125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.3mA 15mA	$T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$
Maximum thermal Resistance	$R_{thJA}$	73°C/W 31°C/W	(Note 2) (Note 3)

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.  
2.FR-4 PCB,2oz,Copper  
3.Polyimide PCB,2oz Copper Cathode pad dimensions 18.8mmx14.4mm  
Anode pad dimensions 5.6mmx14.4mm.

## TO-277B



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.039	.047	1.00	1.20	
A2	.006	.017	0.15	0.43	
b1	.030	.041	0.75	1.05	
b2	.065	.077	1.65	1.95	
D	.148	.169	3.75	4.30	
D2	.110	.126	2.80	3.20	
E	.250	.264	6.35	6.70	
e	.065	.077	1.65	1.95	
E1	.207	.228	5.25	5.80	
E2	.120	.142	3.05	3.60	
L	.028	.051	0.70	1.30	
W	.031	.056	0.80	1.42	

■ Rating and characteristic curves

Fig. 1 - Forward Power Dissipation

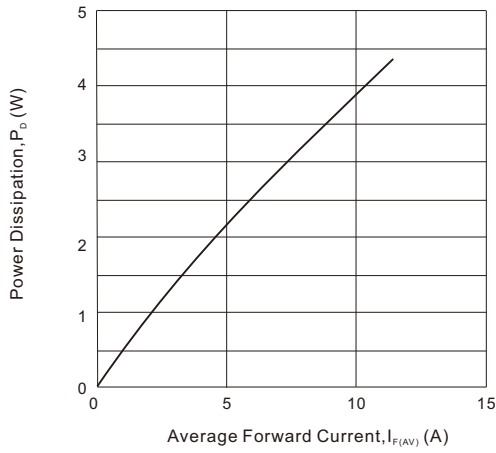


Fig. 2 - Instantaneous Forward Characteristics

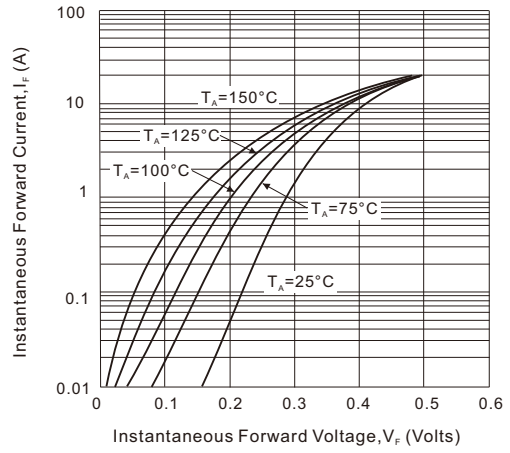


Fig. 3 - Reverse Characteristics

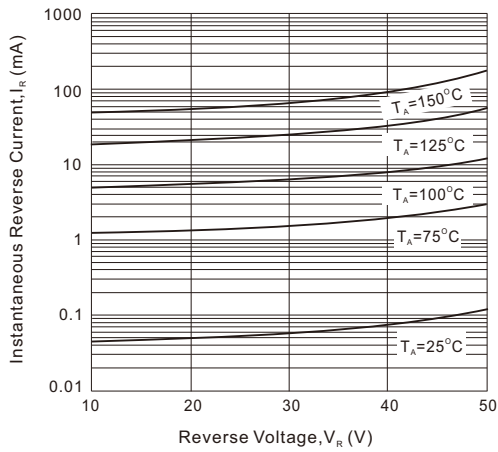


Fig. 4 - Forward Current Derating Curve

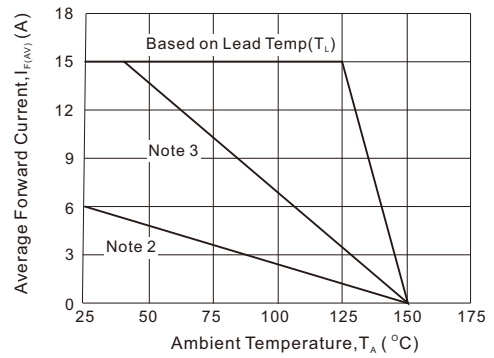


Fig. 5 - Total Capacitance VS. Reverse Voltage

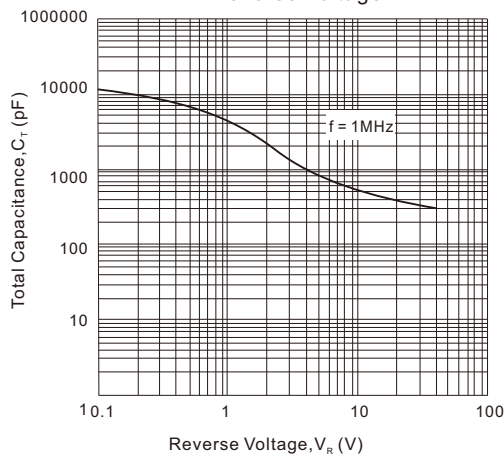
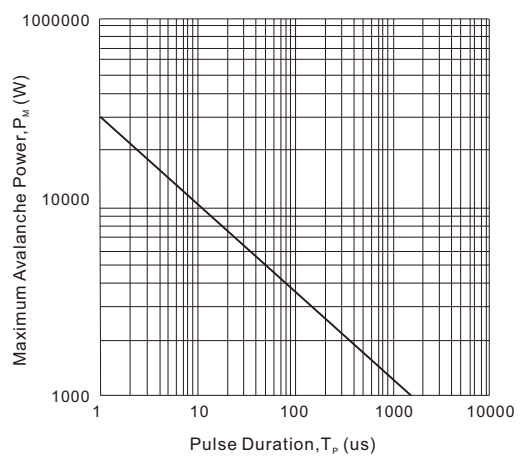


Fig. 6 - Maximum Avalanche Power Curve





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## Ordering Information

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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