



Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- Extremely 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: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR10150ULPS	10150U/ ST10150L	150V	105V	150V

Electrical Characteristics @ 25°C Unless Otherwise Specified

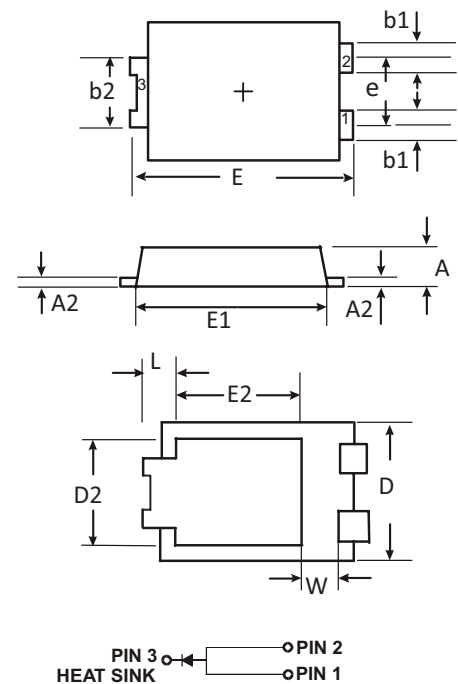
Average Forward Current	$I_{F(AV)}$	10A	$T_c = 125^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	180A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	0.77V(Typ.) 0.84V(max)	$I_F=10A \ T_J = 25^\circ\text{C}$ $I_F=10A \ T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	20uA (max) 3uA (typ.)	$T_J = 25^\circ\text{C}$
Maximum thermal Resistance	R_{thJA}	100	$^\circ\text{C/W}$

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

MBR10150ULPS

10 Amp Low VF Schottky Barrier Rectifier 150 Volts

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	

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MBR10150ULPS

RATING AND CHARACTERISTIC CUEVES

Fig.1 - Forward Current Derating Curve

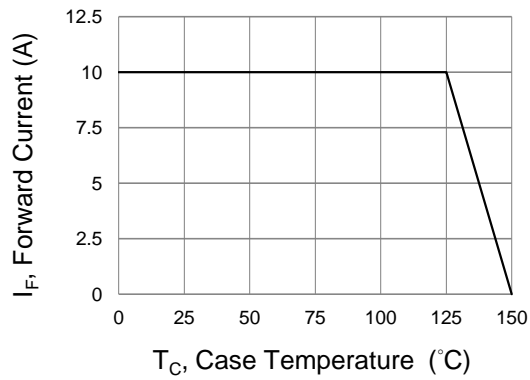


Fig. 2 - Instantaneous Forward Characteristics

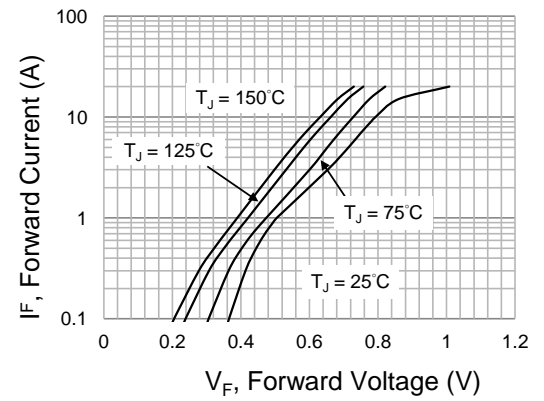
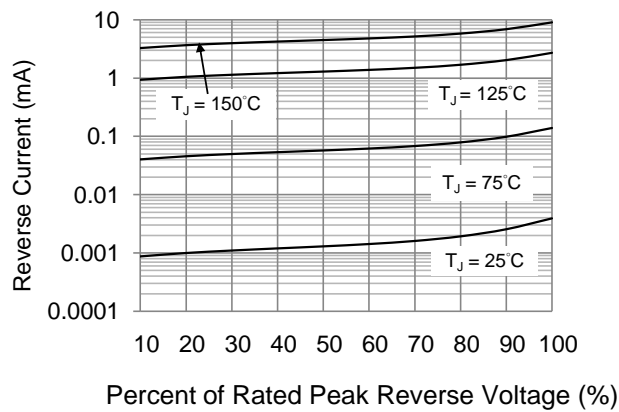


Fig. 3 - Reverse Characteristics



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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