



Micro Commercial Components

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MBR10100AULPS

**10 Amp
Schottky Barrier
Rectifier
100 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

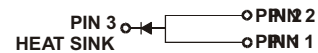
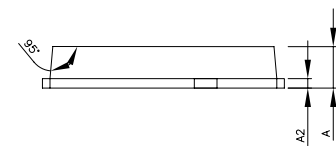
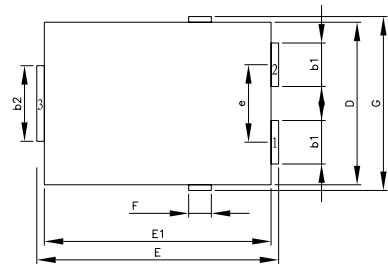
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR10100AULPS	10100U	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10A	$T_L = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	180A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	.68V	$I_{FM} = 10\text{ A}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.15mA	$T_J = 25^\circ\text{C}$

TO-277A



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.039	.047	1.00	1.20	
A2	.006	.017	0.20	0.30	
b1	.030	.041	1.10	1.20	
b2	.065	.077	1.90	2.10	
D	.148	.169	4.20	4.40	
D2	.110	.126	3.95	4.05	
E	.250	.264	6.30	6.50	
e	.065	.077	2.00	2.10	
E1	.207	.228	5.90	6.10	
E2	.149	.157	3.79	3.99	
L	.027	.031	0.68	0.78	
W	.025	.029	0.63	0.73	
F	.022	.026	0.55	0.65	
G	.177	.185	4.50	4.70	

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

MBR10100AULPS

RATINGS AND CHARACTERISTICS CURVES

($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

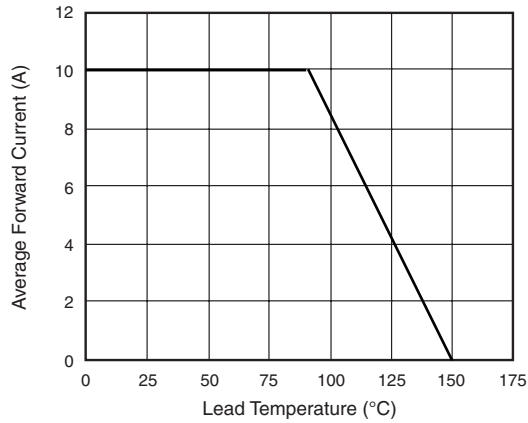


Fig. 1 - Maximum Forward Current Derating Curve

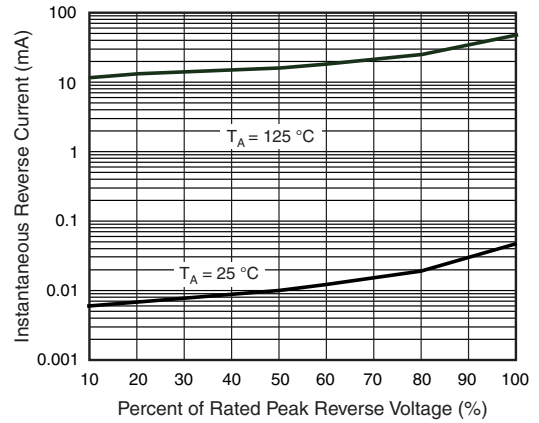


Fig. 2 - Typical Reverse Characteristics

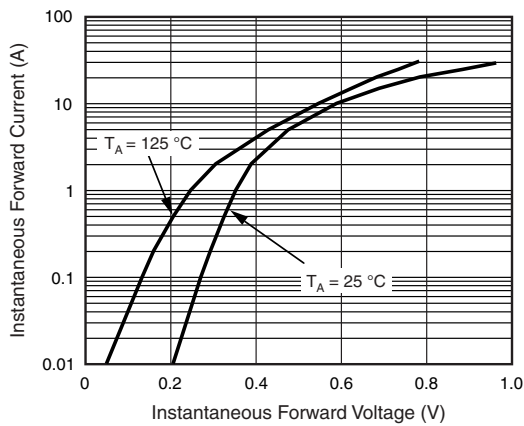


Fig. 3 - Typical Instantaneous Forward Characteristics



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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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