



Micro Commercial Components

Micro Commercial Components  
20736 Marilla Street Chatsworth  
CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

# MBR20100PS

**20 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

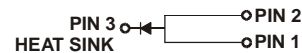
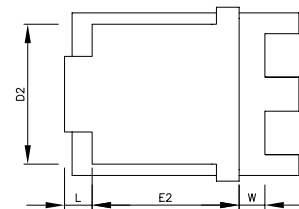
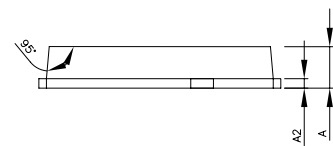
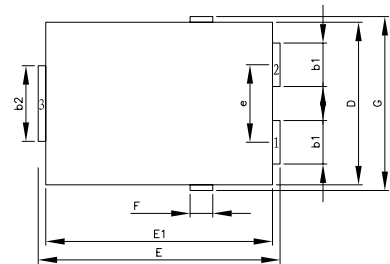
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +125°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20100PS	20100	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20A	$T_L = 120^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	275A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	.85V	$I_{FM} = 20\text{ A}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	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.



Micro Commercial Components

## Ordering Information

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

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

### \*\*\*IMPORTANT NOTICE\*\*\*

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp.* does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*APPLICATIONS DISCLAIMER\*\*\*

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.

[www.mccsemi.com](http://www.mccsemi.com)