



Micro Commercial Components

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

# MBR30100PT

**30 Amp  
 Schottky  
 Barrier Rectifier  
 100Volts**

## Features

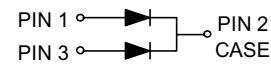
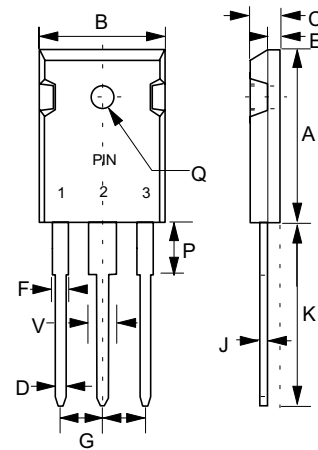
- Metal of siliconrectifier , majonty carrier conduction
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity , High current capability

## Maximum Ratings

- Operating Junction Temperature : 150°C
- Storage Temperature: - 50°C to +150°C

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR 30100PT	100 V	70V	100 V

## TO-247



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	30 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	200A	8.3ms, half sine wave
Maximum Instantaneous Forward Voltage	$V_F$	.85V	$I_{FM} = 15\text{A}$ $T_J = 25^\circ\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage	$I_R$	500 $\mu\text{A}$ 7m A	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.803	.856	20.40	21.75	
B	.608	.640	15.44	16.25	
C	.185	.205	4.70	5.21	
D	.043	.051	1.09	1.30	
E	.059	.082	1.50	2.08	
F	.071	.086	1.80	2.18	
J	.019	.030	0.48	0.76	
K	.772	.791	19.60	20.10	
P	.122	.172	3.10	4.38	
Q	.138	.145	3.50	3.70	
V	.115	.134	2.93	3.40	
B	.205	.224	5.20	5.70	

\* Pulse Test: Pulse Width 380 $\mu\text{sec}$ , Duty Cycle 2%

**RATING AND CHARACTERISTIC CURVES**  
**MBR30100PT**

Figure 1  
Typical Forward Characteristics

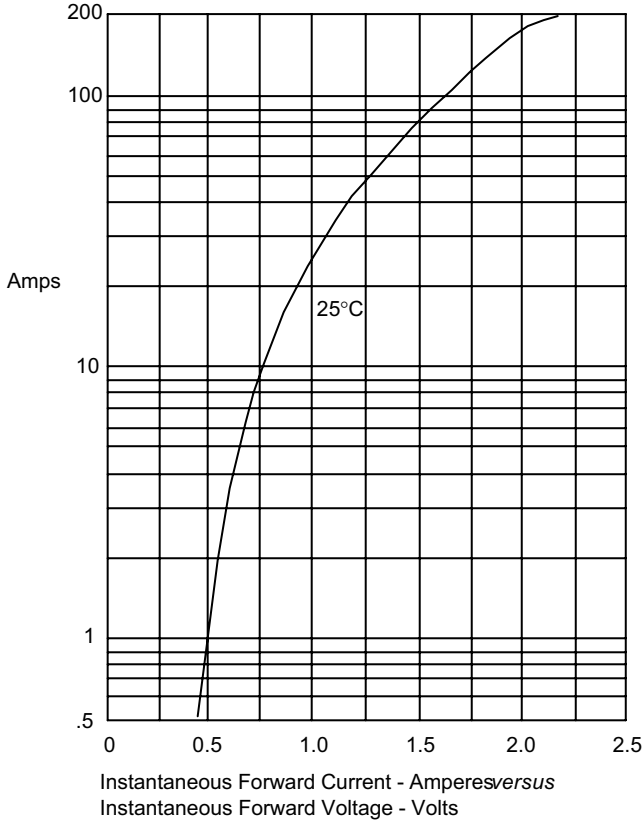


Figure 2  
Typical Reverse Characteristics

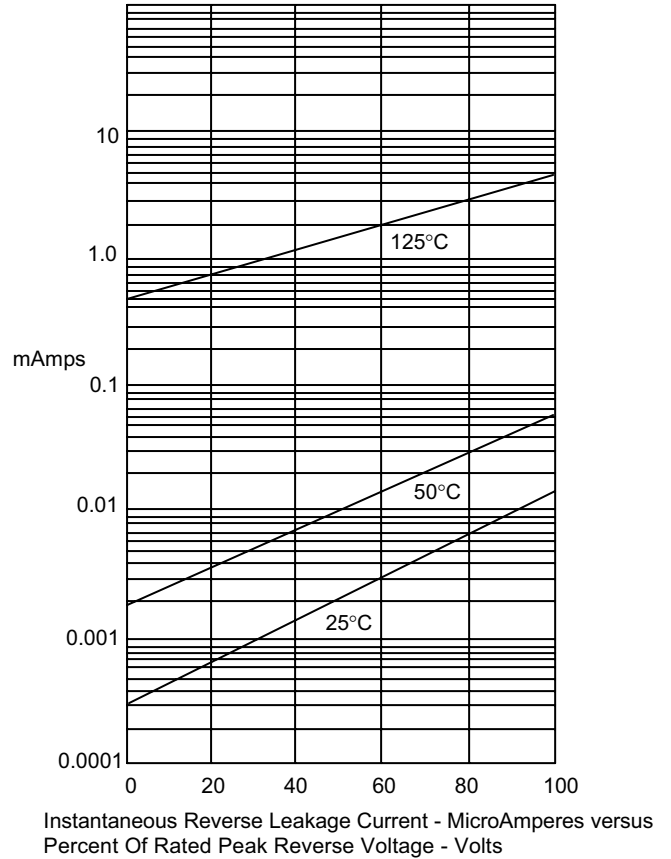


Figure 3  
Forward Current Derating Curve

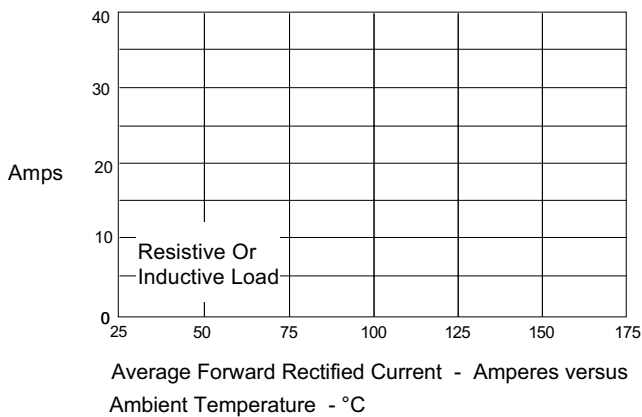


Figure 4  
Peak Forward Surge Current

