

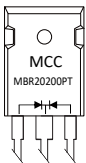
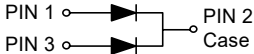
Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Low Power Loss, High Efficiency
- High Surge Capacity and High Current Capability
- High Junction Temperature Capability

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	140	V
Average Rectified Forward Current	$I_{F(AV)}$	10	A
Per Diode Per Device		20	
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave(Per Diode)	I_{FSM}	250	A
Current Squared Time @ 1ms≤t≤8.3ms(Per Diode)	I^2t	259	A ² s

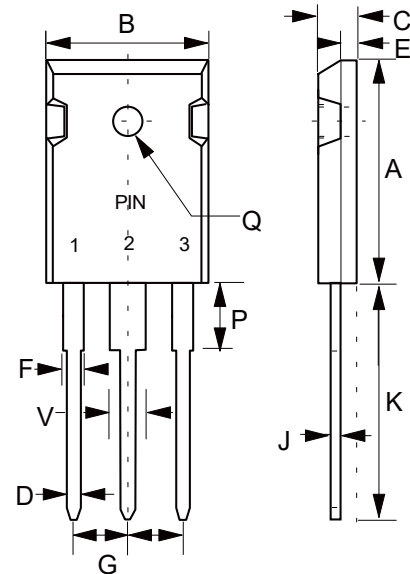
Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1&3	Anode		
2	Cathode		

Note :1. High temperature solder exemption applied, see EU directive annex 7a.

**20 Amp
Schottky Barrier
Rectifier
200 Volts**

TO-247



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.787	0.866	20.00	22.00	
B	0.598	0.638	15.20	16.20	
C	0.185	0.208	4.70	5.30	
D	0.035	0.059	0.90	1.50	
E	0.059	0.094	1.50	2.40	
F	0.067	0.091	1.70	2.30	
J	0.019	0.031	0.48	0.80	
K	0.748	0.833	19.00	21.15	
P	0.122	0.189	3.10	4.80	
Q	0.118	0.150	3.00	3.80	φ
V	0.106	0.134	2.70	3.40	
G	0.197	0.224	5.00	5.70	

Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T _J	Operating Junction Temperature Range		-55		175	°C
T _{stg}	Storage Temperature Range		-55		175	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Per Diode		1.38	1.8	°C/W
Rth _(J-C)	Thermal Resistance from Junction to Case	Per Device			1.0	°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =10A;T _J =25°C		0.85	0.90	V
		I _F =10A;T _J =125°C			0.80	
Reverse Current	I _R	V _R =200V;T _J =25°C			10	μA
		V _R =200V;T _J =125°C			1000	
Junction Capacitance	C _J	V _R =4V;f=1MHz;T _J =25°C		110		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

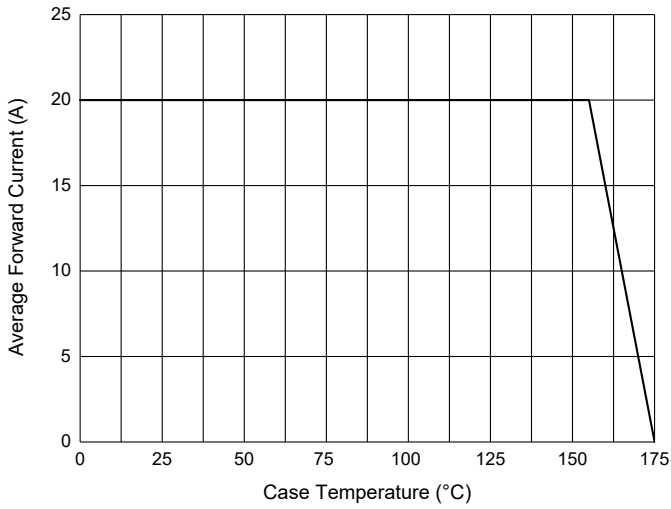


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

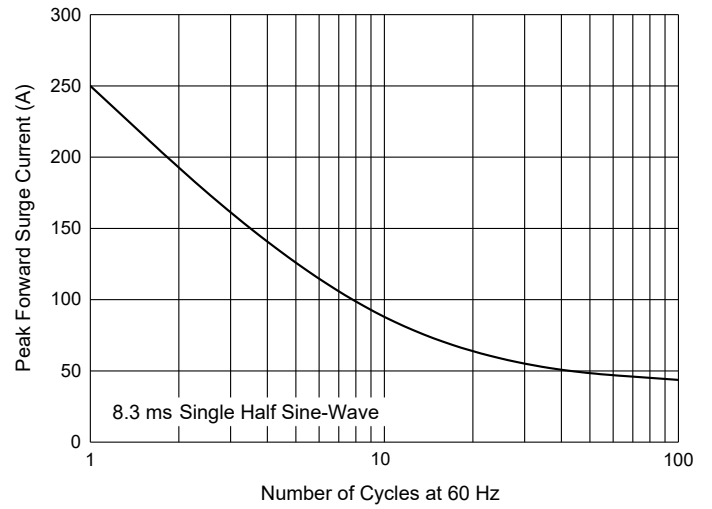


Fig. 3 - Typical Forward Characteristics

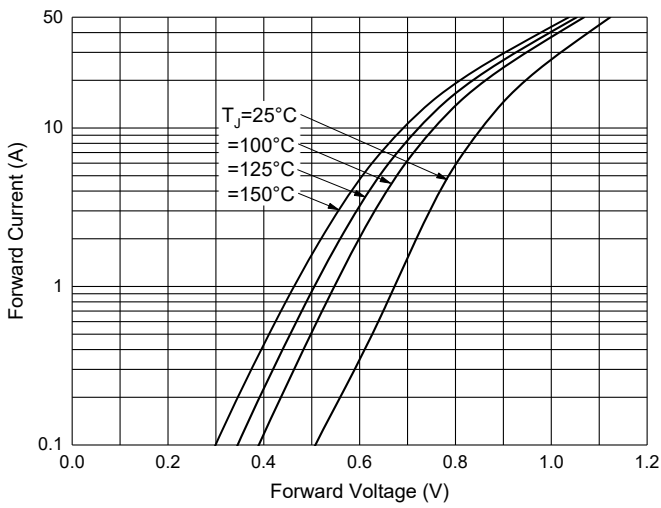


Fig. 4 - Typical Reverse Leakage Characteristics

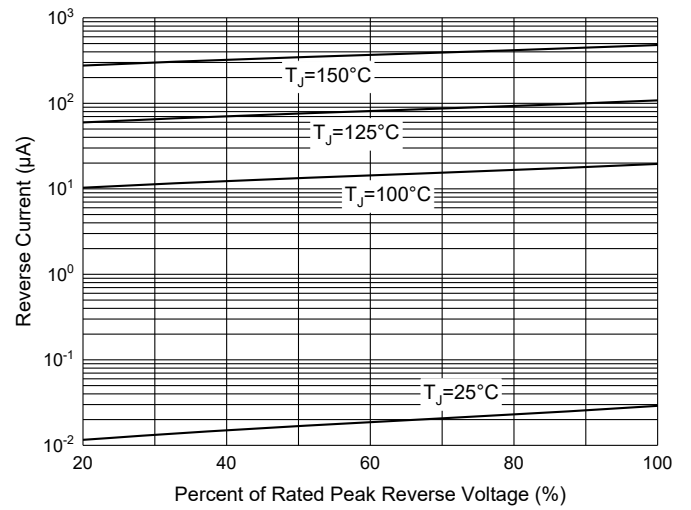
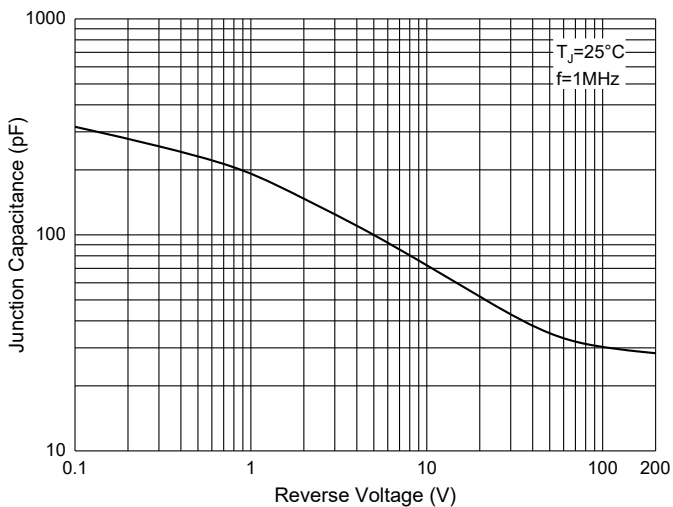


Fig. 5 - Typical Capacitance Characteristics



Ordering Information

Device	Packing
MBR20200PT-BP	Bulk:30pcs/Tube,360pcs/Box,1.8Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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