Features

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

30 Amp Schottky Barrier Rectifier 200 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55ºC to +175ºC
- Storage Temperature Range: -55ºC to +175ºC
- Typical Thermal Resistance: 0.5ºC/W Junction to Case

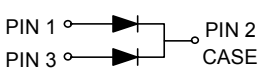
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR30200PT	MBR30200PT	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	30A	T_C=125ºC
Peak Forward Surge Current	I_{FSM}	275A	8.3ms,Half Sine Wave
Instantaneous Forward Voltage	V_F	0.90V(Max) 0.86V(Typ) 0.80V(Max)	I_{FM}=15A; T_J=25ºC I_{FM}=15A; T_J=125ºC
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	0.01mA 1.5mA	T_J=25ºC T_J=125ºC

Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

Internal Structure:



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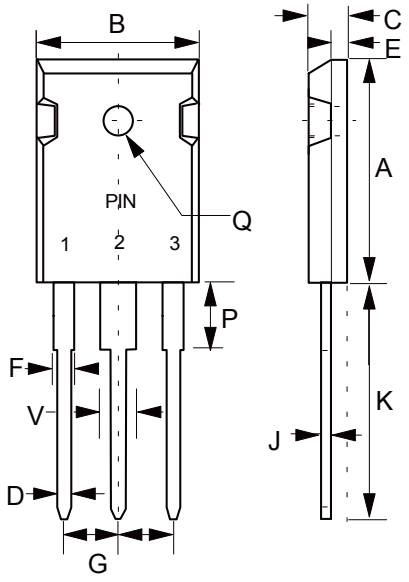

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.787	0.866	20.00	22.00	
B	0.598	0.638	15.20	16.20	
C	0.185	0.208	4.70	5.30	
D	0.035	0.059	0.90	1.50	
E	0.059	0.094	1.50	2.40	
F	0.067	0.091	1.70	2.30	
J	0.019	0.031	0.48	0.80	
K	0.748	0.833	19.00	21.15	
P	0.122	0.189	3.10	4.80	
Q	0.118	0.150	3.00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

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

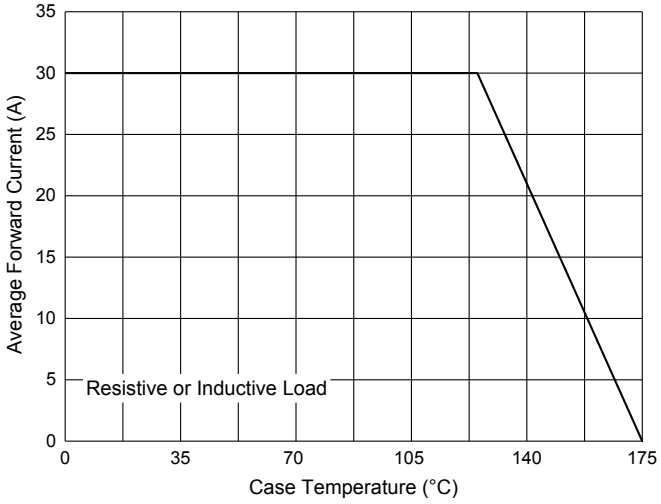

Fig. 2 - Typical Instantaneous Forward Characteristics

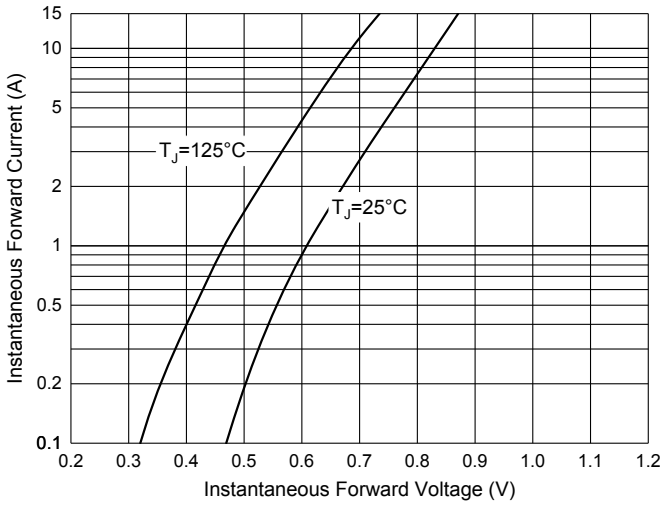

Fig. 3 - Typical Reverse Leakage Characteristics