

Features

- Multilayer Metal -Silicon Potential Structure.
- Have Over Voltage Protect Loop, High Reliability.
- Low Voltage High Frequency Invers Circuit.
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Junction Temperature Capability

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 1ºC/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MBR40200PTH	MBR40200PTH	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

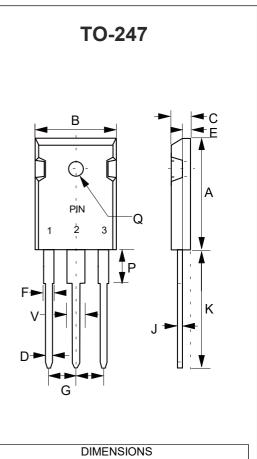
Average Rectified Forward Current	I _{F(AV)}	40A	T _C =140°C	
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Half Sine Wave	
Instantaneous Forward Voltage	V _F	0.86V(Typ.) 0.90V(Max.) 0.80V(Max.)	I _F =20A; T _J =25°C I _F =20A; T _J =25°C I _F =20A; T _J =125°C	
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	0.05mA 20mA	Tյ=25⁰C Tյ=125⁰C	

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

Internal Structure

PIN 1 PIN 2 PIN 3 PIN 2 CASE

40 Amp Schottky Barrier Rectifier 200 Volts



DIMENSIONS						
INCHES		MM		NOTE		
MIN	MAX	MIN	MAX	NOTE		
0.787	0.866	20.00	22.00			
0.598	0.638	15.20	16.20			
0.185	0.208	4.70	5.30			
0.035	0.059	0.90	1.50			
0.059	0.094	1.50	2.40			
0.067	0.091	1.70	2.30			
0.019	0.031	0.48	0.80			
0.748	0.833	19.00	21.15			
0.122	0.189	3.10	4.80			
0.118	0.150	3.00	3.80	Φ		
0.106	0.134	2.70	3.40			
0.197	0.224	5.00	5.70			
	MIN 0.787 0.598 0.185 0.035 0.059 0.067 0.019 0.748 0.122 0.118 0.106	INCHES MIN MAX 0.787 0.866 0.598 0.638 0.185 0.208 0.035 0.059 0.059 0.094 0.067 0.091 0.748 0.833 0.122 0.189 0.118 0.150 0.106 0.134	INCHES M MIN MAX MIN 0.787 0.866 20.00 0.598 0.638 15.20 0.185 0.208 4.70 0.035 0.059 0.90 0.059 0.094 1.50 0.067 0.091 1.70 0.019 0.031 0.48 0.748 0.833 19.00 0.122 0.189 3.10 0.118 0.150 3.00 0.106 0.134 2.70	INCHES MM MIN MAX MIN MAX 0.787 0.866 20.00 22.00 0.598 0.638 15.20 16.20 0.185 0.208 4.70 5.30 0.035 0.059 0.90 1.50 0.059 0.094 1.50 2.40 0.067 0.091 1.70 2.30 0.019 0.031 0.48 0.80 0.748 0.833 19.00 21.15 0.122 0.189 3.10 4.80 0.118 0.150 3.00 3.80 0.106 0.134 2.70 3.40		



Curve Characteristics

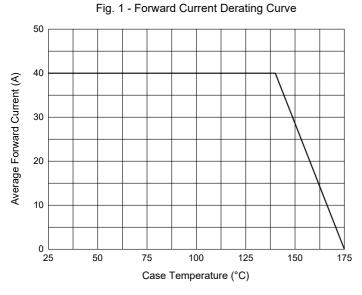
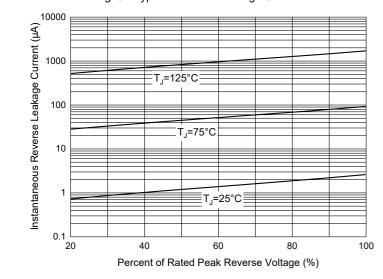


Fig. 3 - Typical Reverse Leakage Characteristics



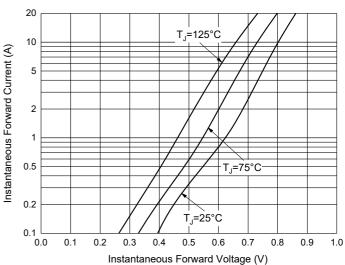


Fig. 2 - Typical Instantaneous Forward Characteristics



Ordering Information

Device	Packing		
MBR40200PTH-BP	Tube:30pcs/Tube, 360pcs/Box,1.8K/Ctn;		

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

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