

Features

- High Frequency Operation
- High Current Capability, High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Forward Voltage Drop
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 2°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
	MBR10100CTH		70V	100V
MBR10150CTH	MBR10150CTH	150V	105V	150V
MBR10200CTH	MBR10200CTH	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

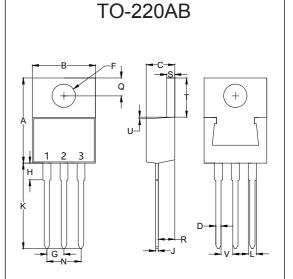
Average Forward Current	I _{F(AV)}	10A	T _C =150⁰C
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBR10100CTH MBR10150CTH MBR10200CTH	V _F	0.8V 0.85V 0.9V	I _{FM} =5A T _A =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 5mA	T _A =25°C; T _A =125°C
Typical Junction Capacitance	CJ	100pF	Measured at 1.0MHz, V _R =4.0V

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure

PIN 1 • PIN 2 PIN 3 • Case

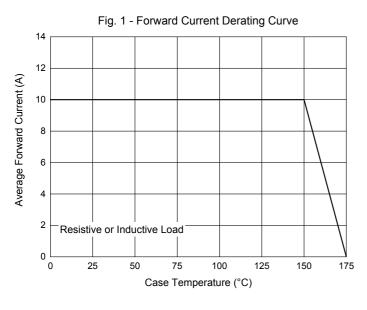
10 Amp
Schottky
Barrier Rectifier
100 to 200 Volts

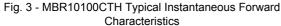


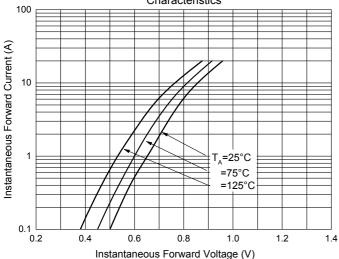
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.560	0.625	14.22	15.88	
В	0.380	0.429	9.65	10.90	
С	0.140	0.201	3.56	5.10	
D	0.020	0.045	0.51	1.14	
F	0.131	0.170	3.34	4.31	Φ
G	0.079	0.121	2.01	3.07	
Н		0.250		6.35	
J	0.011	0.025	0.28	0.64	
Κ	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
Ν	0.158	0.242	4.02	6.14	
Q	0.087	0.135	2.22	3.43	
R	0.080	0.126	2.04	3.19	
S	0.045	0.055	1.14	1.39	
Т	0.230	0.270	5.84	6.86	
U		0.050		1.27	
V	0.045		1.15		

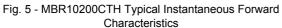


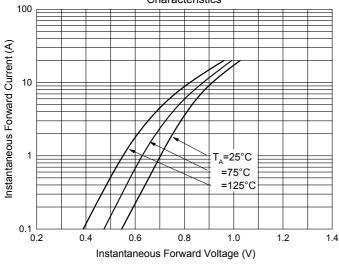
Curve Characteristics











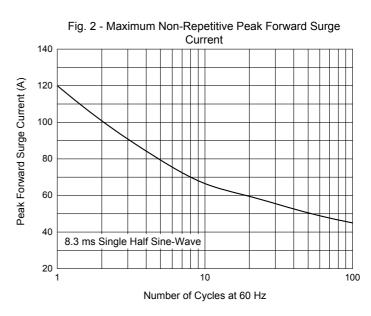
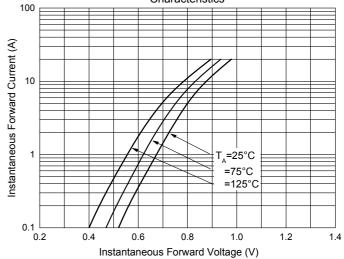
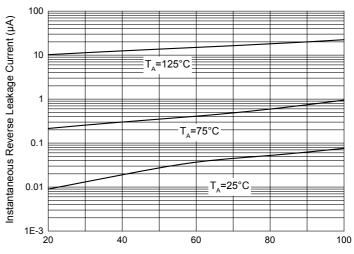


Fig. 4 - MBR10150CTH Typical Instantaneous Forward Characteristics







Percent of Rated Peak Reverse Voltage (%)



Ordering Information

Device	Packing	
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton	

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

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