

## **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

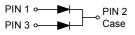
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR10100CTH	MBR10100CTH	100V	70V	100V
MBR10150CTH	MBR10150CTH	150V	105V	150V
MBR10200CTH	MBR10200CTH	200V	140V	200V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

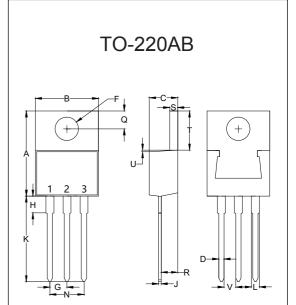
Average Forward Current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> =150°C
Peak Forward Surge Current	I <sub>FSM</sub>	120A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBR10100CTH MBR10150CTH MBR10200CTH	V <sub>F</sub>	0.8V 0.85V 0.9V	I <sub>FM</sub> =5A T <sub>A</sub> =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.01mA 5mA	T <sub>A</sub> =25°C; T <sub>A</sub> =125°C
Typical Junction Capacitance	Сл	100pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex  $7\mathrm{a}$ .

#### **Internal Structure**



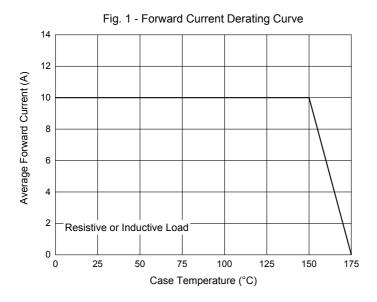
# 10 Amp Schottky Barrier Rectifier 100 to 200 Volts

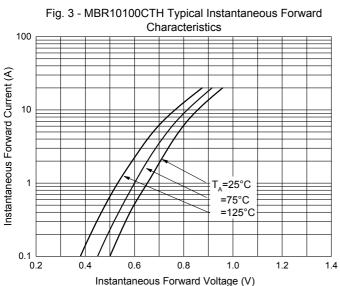


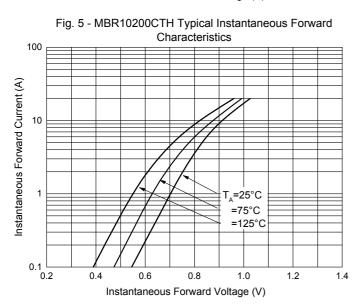
DIMENSIONS					
DIM IN		HES	M	IM	NOTE
Dilvi	MIN	MAX	MIN	MAX	NOTE
Α	0.560	0.625	14.22	15.88	
В	0.380	0.429	9.65	10.90	
С	0.140	0.201	3.56	5.10	
D	0.020	0.045	0.51	1.14	
F	0.131	0.170	3.34	4.31	Ф
G	0.079	0.121	2.01	3.07	
Н		0.250		6.35	
J	0.011	0.025	0.28	0.64	
K	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
N	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		

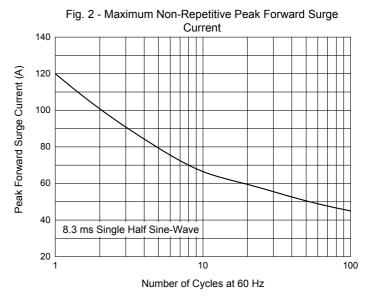


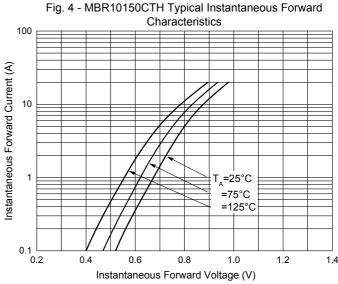
#### **Curve Characteristics**

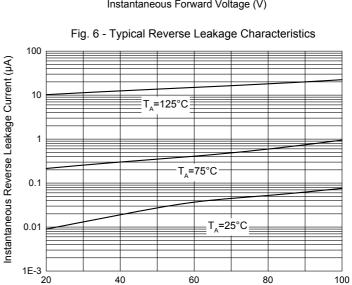












Percent of Rated Peak Reverse Voltage (%)



## **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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