

Features

- High Frequency Operation
- High Current Capability and 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 : 4°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR10100FCTH			70V	100V
MBR10150FCTH	MBR10150FCTH	150V	105V	150V
MBR10200FCTH	MBR10200FCTH	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

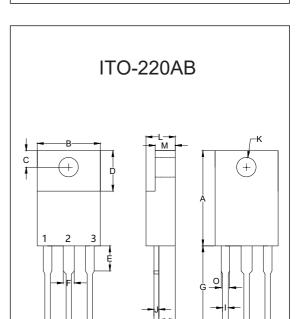
Average Forward Current	I _{F(AV)}	10A	T _C =150°C
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBR10100FCTH MBR10150FCTH MBR10200FCTH	V _F	0.8V 0.85V 0.9V	I _{FM} =5A T _A =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.01mA 5mA	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



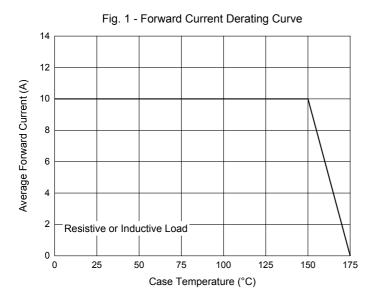
10 Amp Schottky Barrier Rectifier 100 to 200 Volts

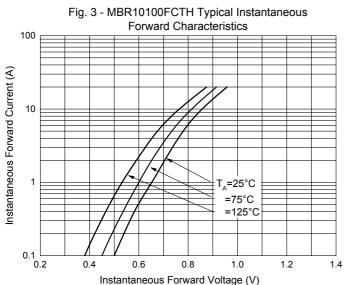


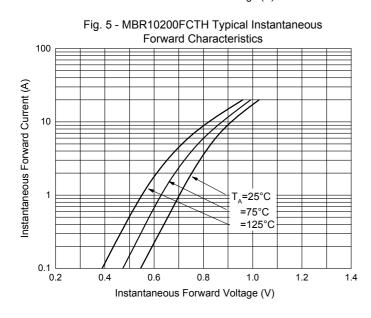
DIMENSIONS					
DIM IN		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.567	0.642	14.40	16.30	
В		0.421		10.70	
С	0.085	0.128	2.15	3.25	
D	0.248	0.272	6.30	6.90	
E		0.177		4.50	
F		0.071		1.80	
G	0.500	0.539	12.70	14.20	
Н	0.1	00	2.	55	
ı		0.035		0.90	
J		0.032		0.80	
K	0.102	0.150	2.60	3.80	Ф
L		0.201		5.10	
М		0.140		3.56	
N	0.083	0.126	2.10	3.20	
0		0.071		1.80	

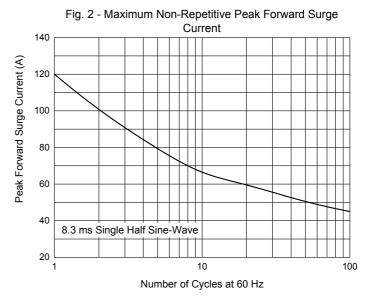


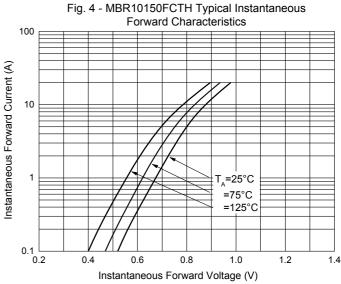
Curve Characteristics

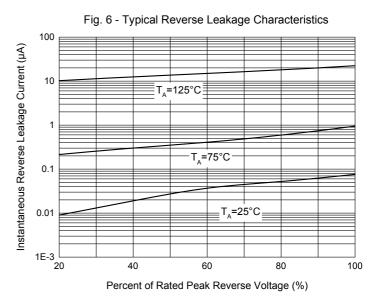












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Ordering Information

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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Micro Commercial Components (MCC):

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