

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

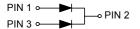
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR30100FCTH	MBR30100FCTH	100V	70V	100V
MBR30150FCTH	MBR30150FCTH	150V	105V	150V

Electrical Characteristics @ 25°C Unless Otherwise Specified

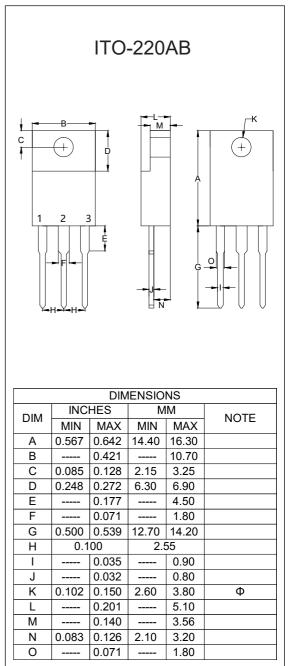
Average Forward Current	I _{F(AV)}	30A	T _C =60⁰C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.85V	I _{FM} =15A T _A =25⁰C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.01mA 5mA	T _A =25°C T _A =125°C
Typical Junction Capacitance MBR30100FCTH MBR30150FCTH	Сյ	310pF 390pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure

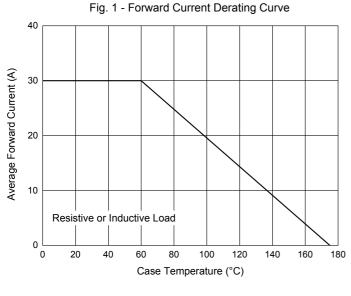


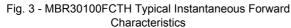
30 Amp Schottky Barrier Rectifier 100 to 150 Volts





Curve Characteristics





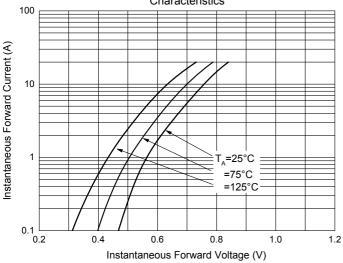
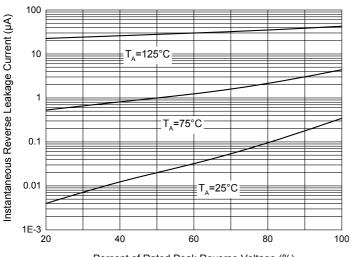


Fig. 5 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)

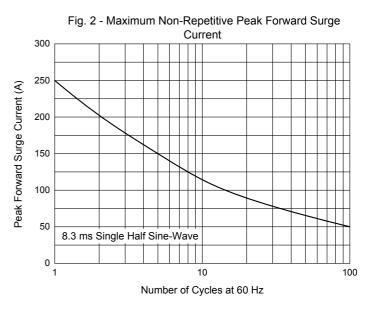
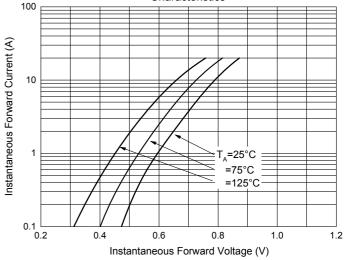


Fig. 4 - MBR30150FCTH Typical Instantaneous Forward Characteristics





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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