

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Power Loss High Efficiency
- High Surge Capacity and High Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Mounting Torgue: 5 in-lbs Maximum
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°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
MBR1520	MBR1520	20V	14V	20V
MBR1530	MBR1530	30V	21V	30V
MBR1535	MBR1535	35V	24.5V	35V
MBR1540	MBR1540	40V	28V	40V
MBR1545	MBR1545	45V	31.5V	45V
MBR1560	MBR1560	60V	42V	60V
MBR1580	MBR1580	80V	56V	80V
MBR15100	MBR15100	100V	70V	100V

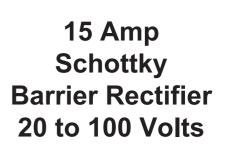
Electrical Characteristics @ 25°C Unless Otherwise Specified

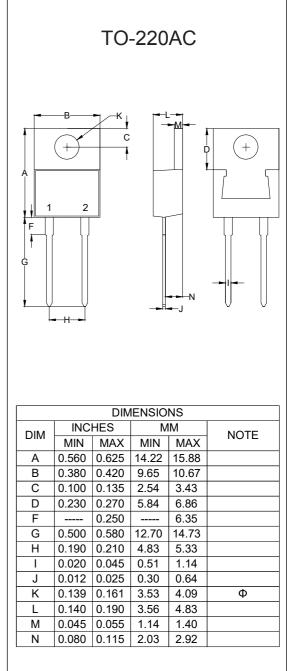
Average Forward Current	I _{F(AV)}	15A	T _C =125⁰C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Forward Voltage Drop Per Element MBR1520-1545 MBR1560 MBR1580-15100	V _F	0.63V 0.75V 0.84V	I _{FM} =15 А Т _J =25°С
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA	TJ=22₀C

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

Internal Structure

PIN 1 ↔ -∞CASE PIN 2 •---







Curve Characteristics

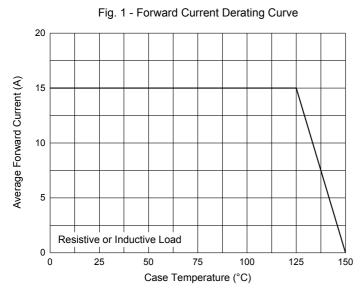
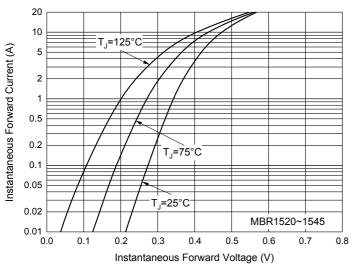
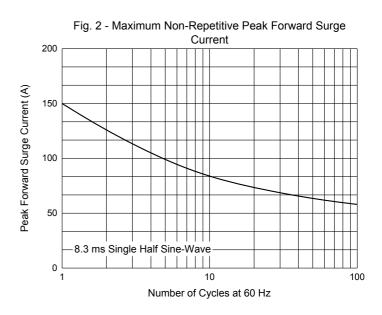
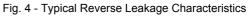
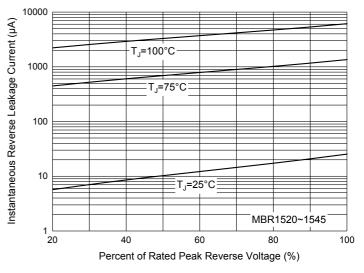


Fig. 3 - Typical Instantaneous Forward Characteristics











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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