

Features

- High Surge Forward Current Capacity
- Low Power Loss and High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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 +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance:2.0°C/W Junction to Case

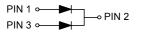
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL2045FCT	MBRL2045FCT	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

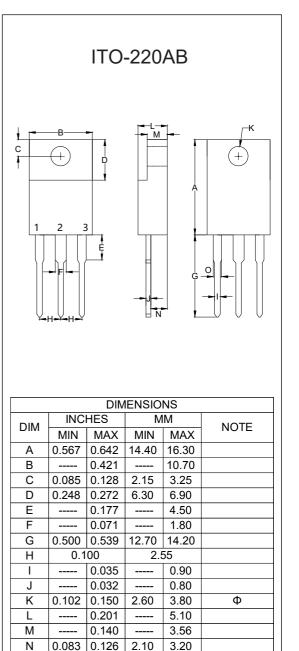
Average Forward Current	I _{F(AV)}	20A	T _C =90⁰C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Current Squared Time	l²t	94A ² S	1ms≤t<8.3ms Tj=25ºC,Rating of Per Diode
Maximum Instantaneous Forward Voltage	V _F	0.52V	I _{FM} =10A T _A =25ºC
Peak Reverse Current	I _R	0.2mA 20mA	T _A =25°C T _A =100°C

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

Internal Structure



20 Amp Low VF Schottky Barrier Rectifier 45Volts



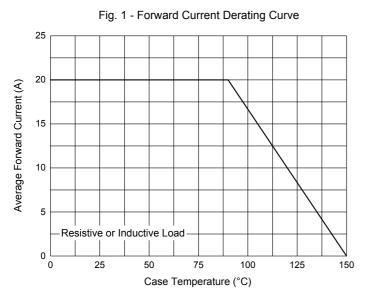
0.071

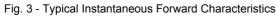
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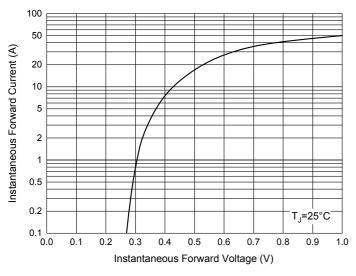
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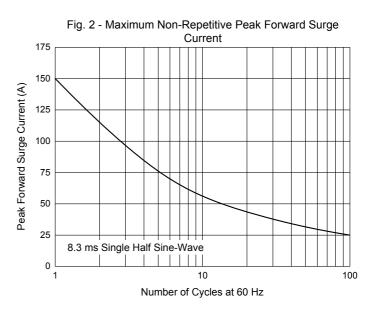


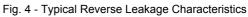
Curve Characteristics

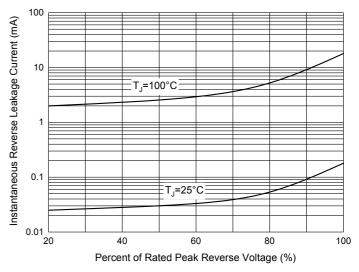














Ordering Information

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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