

Features

- High Surge Current Capacity
- Low Forward Voltage Drop
- 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
- Typical Thermal Resistance: 4.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL3045FCT	MBRL3045FCT	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

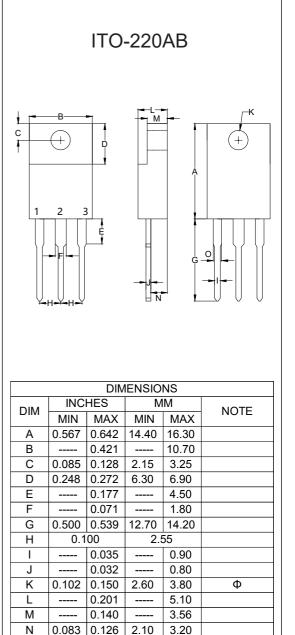
Average Forward Current	I _{F(AV)}	30A	T _C =100⁰C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V_{F}	0.55V	I _{FM} =15A ;T _A =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 50mA	T _A =25°C T _A =100°C
Current Squared Time	l²t	259A ² S	1ms≤t<8 .3ms T _A =25ºC, Rating of per diode

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

Internal Structure

PIN 1 • PIN 2 PIN 3 • PIN 2





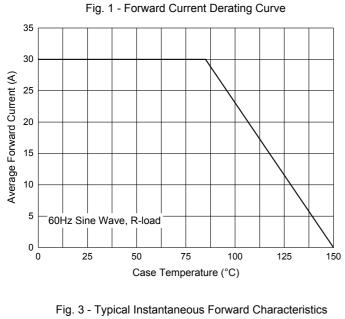
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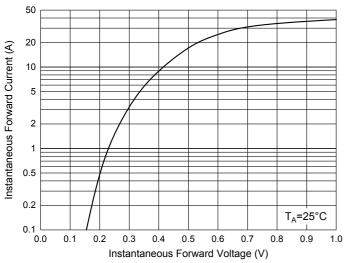
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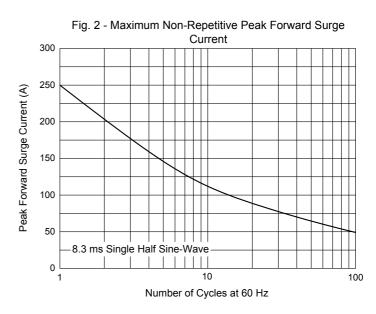
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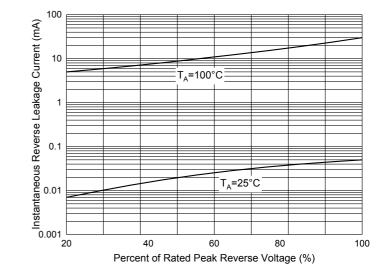
Curve Characteristics













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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