

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
- Moisture Sensitivity Level 1

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

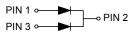
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL3045FCT	MBRL3045FCT	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

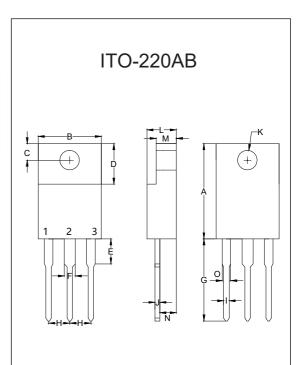
Average Forward Current	I _{F(AV)}	30A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.55V	I _{FM} =15A ;T _A =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 50mA	T _A =25°C T _A =100°C
Current Squared Time	l²t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

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

Internal Structure



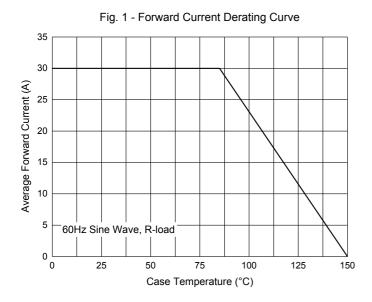
30 Amp Low VF Schottky Barrier Rectifier 45 Volts

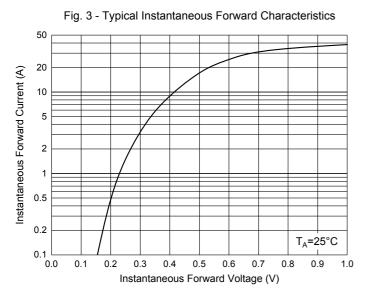


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.567	0.642	14.40	16.30	
В		0.421		10.70	
С	0.085	0.128	2.15	3.25	
D	0.248	0.272	6.30	6.90	
E		0.177		4.50	
F		0.071		1.80	
G	0.500	0.539	12.70	14.20	
Н	0.1	00	2.	55	
I		0.035		0.90	
J		0.032		0.80	
K	0.102	0.150	2.60	3.80	Ф
L		0.201		5.10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



Curve Characteristics





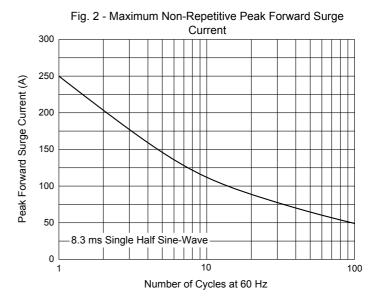
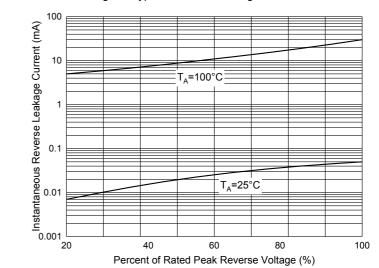


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-BP	Bulk:1Kpcs/Box

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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