

Features

- · High Surge 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
- Typical Thermal Resistance 4.0°C/W Junction to Case

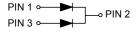
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL20100FCT	MBRL20100FCT	100V	70V	100V
MBRL20150FCT	MBRL20150FCT	150V	105V	150V

Electrical Characteristics @ 25°C Unless Otherwise Specified

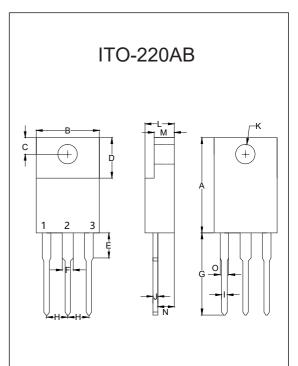
Average Forward Current	I _{F(AV)}	20A	T _C =90°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBRL20100FCT MBRL20150FCT	V _F	0.72V 0.9V	I _{FM} =10A T _J =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 20mA	T _J =25°C T _J =125°C
Current Squared Time	l²t	166A ² S	1ms≤t < 8.3ms Tj=25 ℃ ,Rating of per diode

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

Internal Structure



20 Amp Low VF Schottky Barrier Rectifier 100 to 150 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	
Е		0.177		4.50	
F		0.071		1.80	
G	0.500	0.539	12.70	14.20	
Н	0.1	00	2.	55	
ı		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	
N	0.083	0.126	2.10	3.20	
0		0.071		1.80	



Curve Characteristics

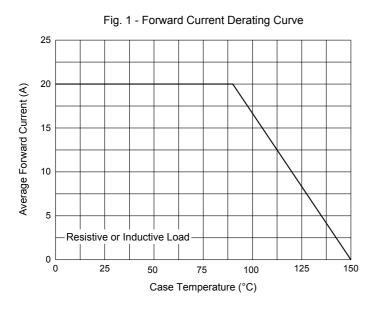


Fig. 3 - Typical Instantaneous Forward Characteristics

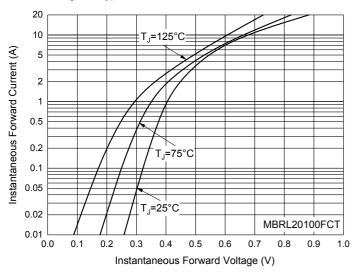


Fig. 5 - Typical Reverse Leakage Characteristics

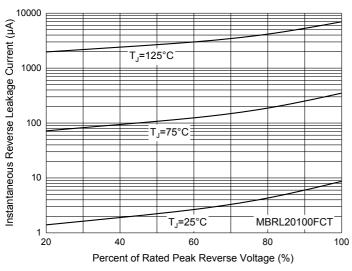


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

200

175

100

100

25

8.3 ms Single Half Sine-Wave

1 10 100

Fig. 4 - Typical Instantaneous Forward Characteristics

Number of Cycles at 60 Hz

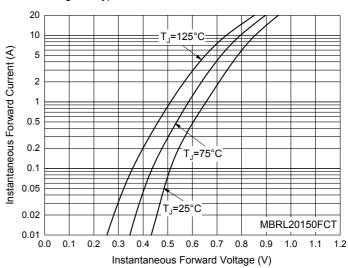
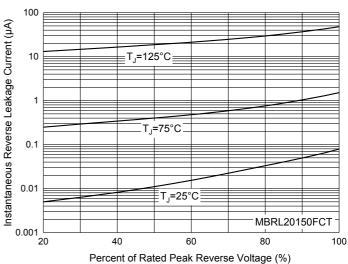


Fig. 6 - Typical Reverse Leakage Characteristics





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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