

Features

- High Surge Forward Current Capability
- Low Power Loss, 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°C/W Junction to Case

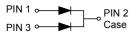
_	MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
	MBRL20100CT	MBRL20100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

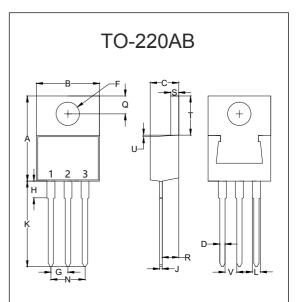
Average Forward Current	I _{F(AV)}	20A	T _C =110°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine
Current Squared Time	l²t	167A ² S	1ms≤t<8.3ms,Tյ=25°C; Rating of Per Diode
Maximum Instantaneous Forward Voltage	V _F	0.70V	I _{FM} =10A; T _A =25°C
Peak Reverse Current	I _R	0.1mA 10mA	T _A =25°C; 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 100 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.560	0.625	14.22	15.88			
В	0.380	0.429	9.65	10.90			
С	0.140	0.201	3.56	5.10			
D	0.020	0.045	0.51	1.14			
F	0.131	0.170	3.34	4.31	Ф		
G	0.079	0.121	2.01	3.07			
Н		0.250		6.35			
J	0.011	0.025	0.28	0.64			
K	0.500	0.580	12.70	14.73			
L	0.045	0.060	1.14	1.52			
N	0.158	0.242	4.02	6.14			
Q	0.087	0.135	2.22	3.43			
R	0.080	0.126	2.04	3.19			
S	0.045	0.055	1.14	1.39			
Т	0.230	0.270	5.84	6.86			
U		0.050		1.27			
V	0.045		1.15				



Curve Characteristics

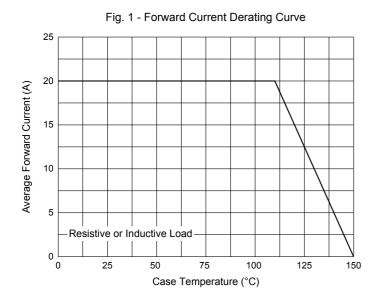


Fig. 3 - Typical Instantaneous Forward Characteristics

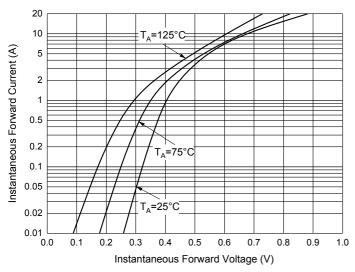
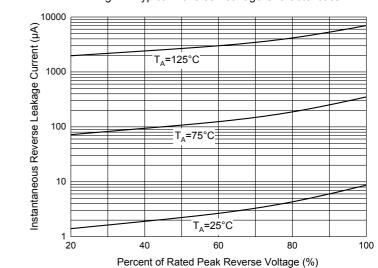


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

225
200
4 175
150
100
75
50
25
8.3 ms Single Half Sine-Wave
0
1 10 100
Number of Cycles at 60 Hz

Fig. 4 - 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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