

Features

- High Surge Forward Current Capability
- Low Forward Voltage drop, Low Power Losses
- 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
- Maximum Thermal Resistance : 2°C/W Junction to Case

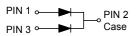
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL20120CT	MBRL20120CT	120V	84V	120V

Electrical Characteristics @ 25°C Unless Otherwise Specified

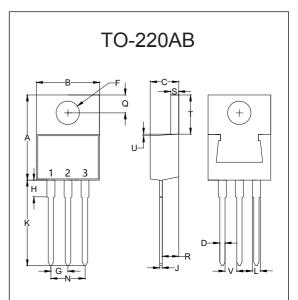
Average Forward Current	I _{F(AV)}	20A	T _C =115°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine
Current Squared Time	I ² t	166A ² S	1ms≤t<8.3ms,T _J =25°C; Rating of Per Diode
Instantaneous Forward Voltage	V _F	0.85V(Max.) 0.81V(Typ.) 0.72V(Max.) 0.66V(Typ.)	I _{FM} =10A; T _A =25°C I _{FM} =10A; T _A =25°C I _{FM} =10A; T _A =125°C I _{FM} =10A; T _A =125°C
Peak Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA(Max.) 7μΑV(Typ.) 40mA(Max.) 6mA(Typ.)	T _A =25°C T _A =25°C T _A =125°C T _A =125°C
Typical Junction Capacitance	CJ	400pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure



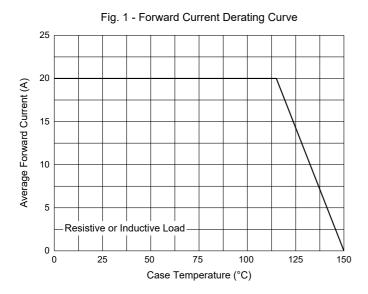
20 Amp Low VF Schottky Barrier Rectifier 120 Volts

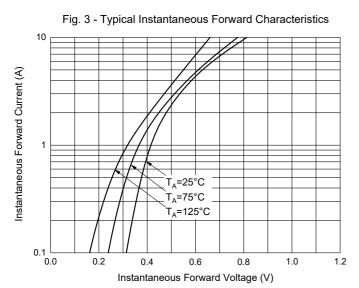


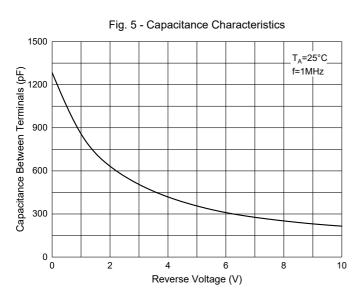
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.429	9.65	10.90		
С	0.140	0.201	3.56	5.10		
D	0.020	0.045	0.51	1.14		
F	0.131	0.170	3.34	4.31	Ф	
G	0.079	0.121	2.01	3.07		
Н		0.250		6.35		
J	0.011	0.025	0.28	0.64		
K	0.500	0.580	12.70	14.73		
L	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			

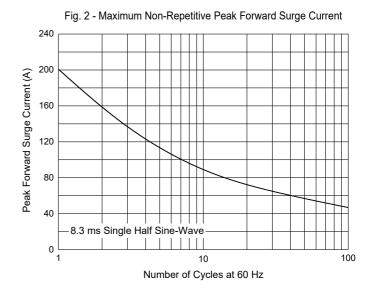


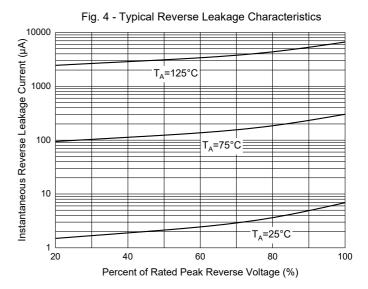
Curve Characteristics











Rev.3-3-12012020 2/3 MCCSEMI.COM



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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