

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

40 Amp Low VF Schottky Barrier Rectifier 120 Volts

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

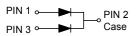
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL40120CT	MBRL40120CT	120V	84V	120V

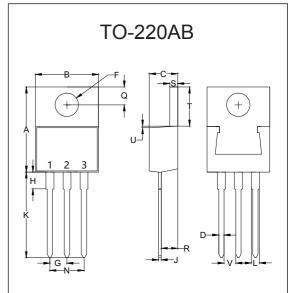
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	40A	T _C =85°C
Peak Forward Surge Current	I _{FSM}	320A	8.3ms,Half Sine
Current Squared Time	l²t	425A ² S	1ms≤t<8.3ms,T _J =25°C; Rating of Per Diode
Instantaneous Forward Voltage	V _F	0.85V(Max.) 0.79V(Typ.) 0.72V(Max.) 0.68V(Typ.)	I _{FM} =20A; T _A =25°C I _{FM} =20A; T _A =25°C I _{FM} =20A; T _A =125°C I _{FM} =20A; T _A =125°C
Peak Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA(Max.) 18µAV(Typ.) 40mA(Max.) 15mA(Typ.)	• •
Typical Junction Capacitance	Сл	900pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure

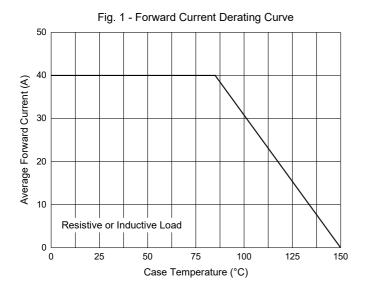


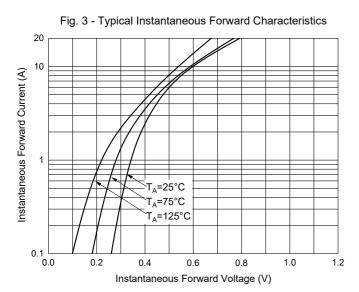


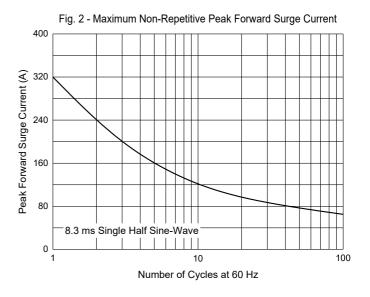
DIMENSIONS						
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.429	9.65	10.90		
С	0.140	0.201	3.56	5.10		
D	0.020	0.045	0.51	1.14		
F	0.131	0.170	3.34	4.31	Ф	
G	0.079	0.121	2.01	3.07		
Н		0.250		6.35		
J	0.011	0.025	0.28	0.64		
K	0.500	0.580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

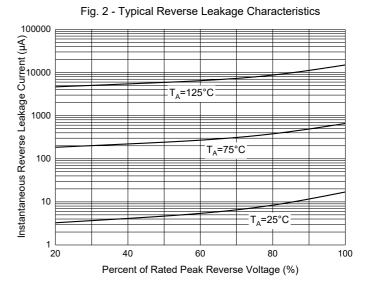


Curve Characteristics











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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