

Features

- · Low Power Loss, High Efficiency
- Low Forward Voltage Drop And High Frequency Operation
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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
- Mounting Torgue: 5 in-lbs Maximum
- Typical Thermal Resistance Per Leg : 2°C/W Junction to Case

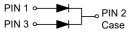
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL40150CT	MBRL40150CT	150V	105V	150V

Electrical Characteristics @ 25°C Unless Otherwise Specified

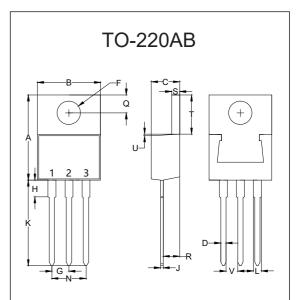
Average Forward Rectified Current	I _{F(AV)}	40A	(See Fig.1)
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine
Instantaneous Forward Voltage Per Leg	V _F	0.68V(Typ) 0.83V(Typ) 0.88V(Max) 0.56V(Typ) 0.72V(Typ)	I _F =5A,T _J =25°C IF=20A,TJ=25°C IF=20A,TJ=25°C IF=5A,TJ=125°C I _F =20A,T _J =125°C
Maximum Reverse Current Per Leg at Working Peak Reverse Voltage	I _R	0.05mA 20mA	T _J =25°C T _J =125°C
Typical Junction Capacitance	CJ	950pF	Measured at 1.0MHz , V _R =4.0V

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

Internal Structure



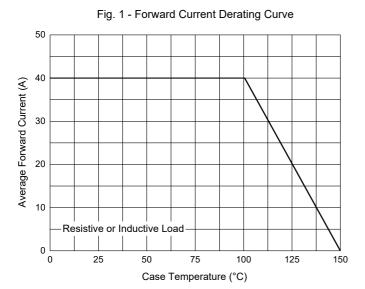
40 Amp Low VF Schottky Barrier Rectifier 150 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
ואווט	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



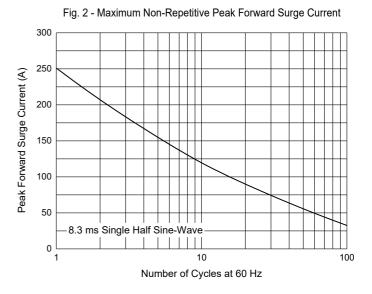
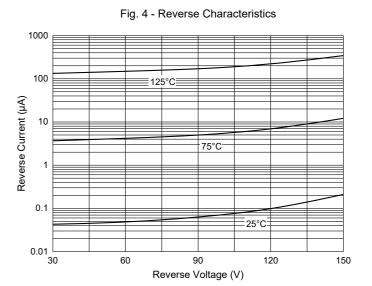


Fig. 3 - Forward Characteristics

20
10
10
25°C
75°C
125°C
125°C
125°C
125°C
125°C
125°C
125°C
125°C
125°C





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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