

Features

- High Current Capability and High Efficiency
- Low Forward Voltage Drop
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates RoHS 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(Per Leg): 2.0°C/W Junction to Case

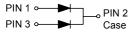
MCC Part Nur		Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL40L	J60CT	MBRL40U60CT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

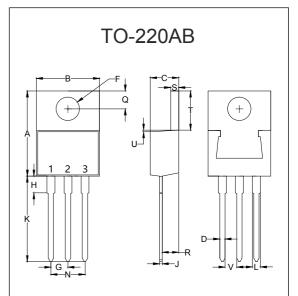
Average Forward Current	I _{F(AV)}	40A	T _C =120°C
Peak Forward Surge Current(Per Leg)	I _{FSM}	300A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.56V 0.53V(Typ.) 0.54V	I _{FM} =20A; T _A =25°C I _{FM} =20A; T _A =125°C
Maximum Peak Reverse Current	I _R	0.2mA 15mA	T _A =25°C; T _A =100°C

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

Internal Structure



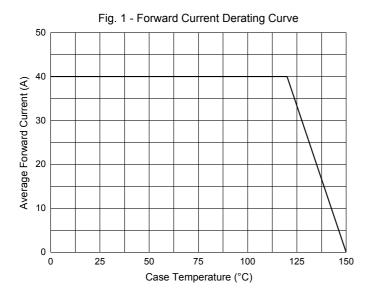
40 Amp Low VF Schottky Barrier Rectifier 60 Volts

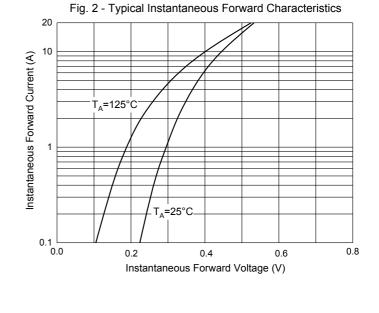


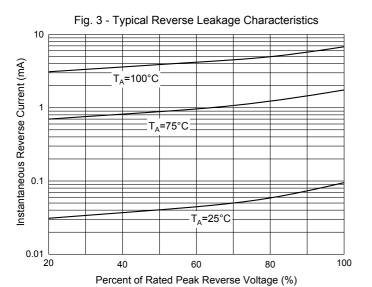
	DIMENSIONS					
DIM	INC	HES	MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.429	9.65	10.90		
С	0.140	0.201	3.56	5.10		
D	0.020	0.045	0.51	1.14		
F	0.131	0.170	3.34	4.31	Ф	
G	0.079	0.121	2.01	3.07		
Н		0.250		6.35		
J	0.011	0.025	0.28	0.64		
K	0.500	0.580	12.70	14.73		
L	0.045	0.060	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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