

Features

- Low Forward Voltage Drop
- Low Leakage Current
- 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
- Typical Thermal Resistance : 2°C/W Junction to Case

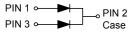
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL30300CT	MBRL30300CT	300V	210V	300V

Electrical Characteristics @ 25°C Unless Otherwise Specified

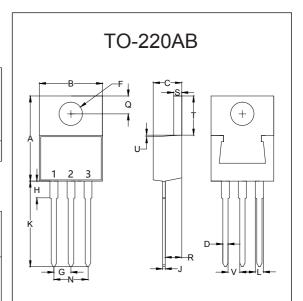
Average Forward Current	I _{F(AV)}	30A	T _C =110°C
Peak Forward Surge Current	I _{FSM}	110A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.94V(Typ.) 1.10V 0.85V	I _{FM} =15A; T _J =25°C I _{FM} =15A; T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	30μA 10mA	T _J =25°C; T _J =125°C

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

Internal Structure



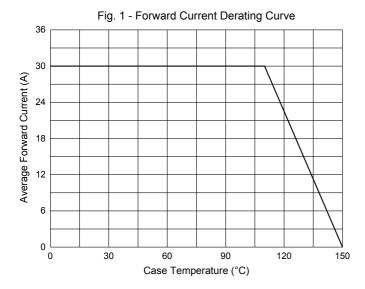
30 Amp Low VF Schottky Barrier Rectifier 300 Volts

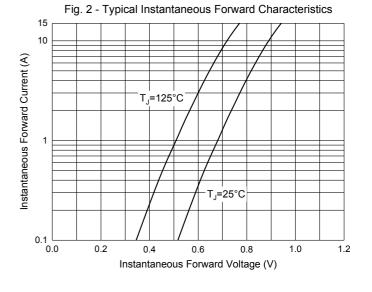


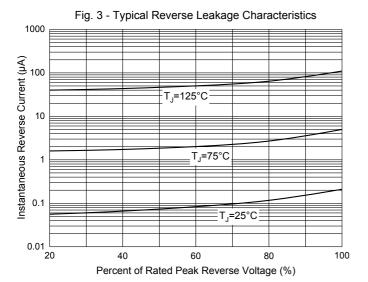
	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.560	0.625	14.22	15.88	
В	0.380	0.429	9.65	10.90	
С	0.140	0.201	3.56	5.10	
D	0.020	0.045	0.51	1.14	
F	0.131	0.170	3.34	4.31	Ф
G	0.079	0.121	2.01	3.07	
Н		0.250		6.35	
J	0.011	0.025	0.28	0.64	
K	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
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:1Kpcs/Box

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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