

Features

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

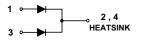
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL30100CT	MBRL30100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

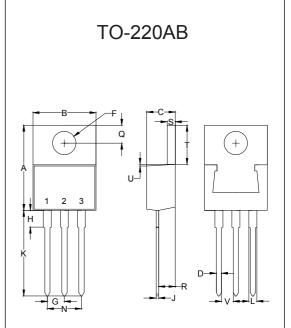
		1	
Average Forward Current	I _{F(AV)}	30A	T _C =120°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	0.68V(Typ.) 0.72V(Max.) 0.67V(Typ.) 0.70V(Max.)	I _{FM} =15A; T _J =25°C I _{FM} =15A; T _J =25°C I _{FM} =15A; T _J =125°C I _{FM} =15A; T _J =125°C
DC Reverse Current at Rated DC Blocking Voltage	I _R	6.5uA(Typ.) 0.1mA(Max.) 8mA(Typ.) 50mA(Max.)	T _J =25°C T _J =25°C T _J =125°C T _J =125°C

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

Internal Structure



30 Amp Low VF Schottky Barrier Rectifier 100 Volts



		DIN	IENSIO	NS	
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	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	Φ
G	0.079	0.121	2.01	3.07	
Н		0.250		6.35	
J	0.011	0.025	0.28	0.64	
Κ	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
Ν	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

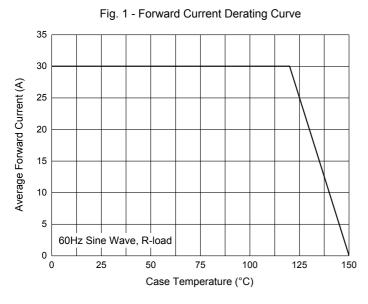
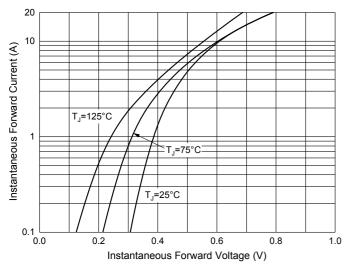
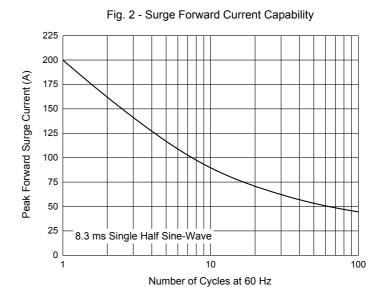
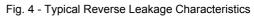
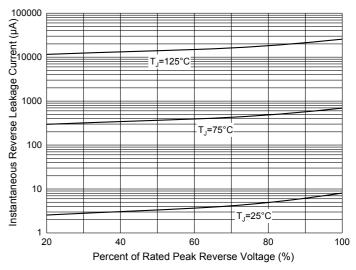


Fig. 3 - Typical Instantaneous Forward Characteristics











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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