

Features

- · Low Power Loss, High Efficiency
- Guardring for Overvoltage Protection
- 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 : 1.7°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR30200CT	MBR30200CT	200V	140V	200V

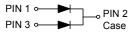
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Rectified Current	I _{F(AV)}	30A 15A	(See Fig.1)
Peak Forward Surge Current	I _{FSM}	200A	8.3ms,Half Sine
Peak Repetitive Reverse Current Per Leg	I _{RRM}	1.0A	tp = 2.0us, 1KHz
Voltage Rate of Change (Rated V _R)	dv/dt	10,000V/us	
Maximum Instantaneous Forward Voltage Per Leg (Note 5)	V _F	0.95V 0.75V 0.99V 0.86V	I _F =15A,T _J =25°C I _F =15A,T _J =125°C I _F =30A,T _J =25°C I _F =30A,T _J =125°C
Maximum Reverse Current Per Leg at Working Peak Reverse Voltage	I _R	0.1mA 1.0mA	T _J =25°C T _J =125°C
RMS Isolation Voltage (MBRF Type Only) from Terminals to Heatsink With t = 1.0 Second, RH≤30%	V _{ISOL}	4500V 3500V 1500V	(Note 2) (Note 3) (Note 4)

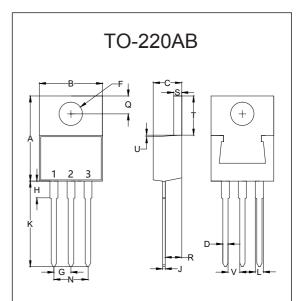
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

- 2. Clip mounting (on case), where lead does not overlap heatsink with 0.110" offset
- 3. Clip mounting (on case), where leads do overlap heatsink
- 4. Screw mounting with 4-40 screw, where washer diameter is < 4.9 mm (0.19")
- 5. Pulse test: 300us pulse width, 1% duty cycle

Internal Structure



30 Amp Schottky Barrier Rectifier 200 Volts



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

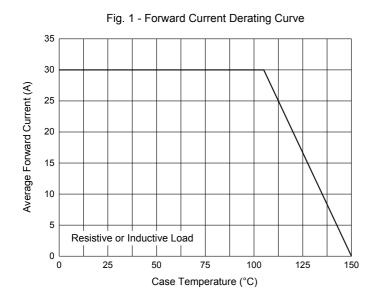
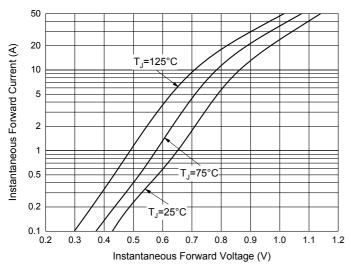


Fig. 3 - Typical Instantaneous Forward Characteristics



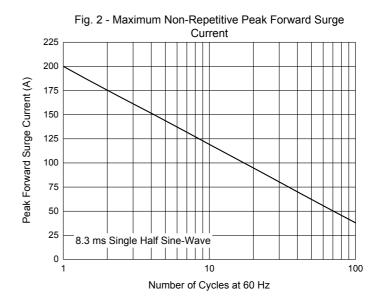
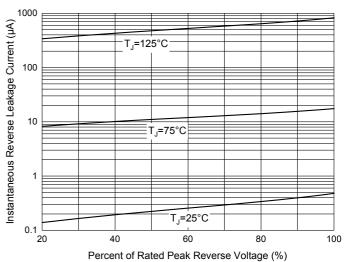


Fig. 4 - Typical Reverse Leakage Characteristics





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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