

Features

- High Current Capability, Low VF
- Low Power Loss and High Efficiency
- Guard Ring For Transient Protection
- 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 +175°C
- Maximum 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
MBR870	MBR870	70V	49V	70V
MBR880	MBR880	80V	56V	80V
MBR890	MBR890	90V	63V	90V
MBR8100	MBR8100	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

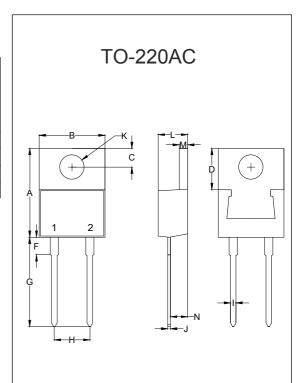
Average Forward Current	I _{F(AV)}	8A	T _C =110°C	
Peak Forward Surge Current	I _{FSM}	125A	8.3ms,Half Sine	
Voltage Rate of Change	dv/dt	10000	Rated V _R	
Maximum Instantaneous Forward Voltage	V _F	0.85V 0.75V 0.95V 0.85V	I _{FM} =8A, T _J =25°C I _{FM} =8A, T _J =125°C I _{FM} =16A, T _J =25°C I _{FM} =16A, T _J =125°C	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 20mA	T _J =25°C T _J =125°C	
Typical Junction Capacitance	CJ	280pF	Measured at 1.0MHz, V _R =4.0V	

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

Internal Structure



8 Amp Schottky Rectifier 70 to 100 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.560	0.625	14.22	15.88	
В	0.380	0.420	9.65	10.67	
С	0.100	0.135	2.54	3.43	
D	0.230	0.270	5.84	6.86	
F		0.250		6.35	
G	0.500	0.580	12.70	14.73	
Н	0.190	0.210	4.83	5.33	
I	0.020	0.045	0.51	1.14	
J	0.012	0.025	0.30	0.64	
K	0.139	0.161	3.53	4.09	Ф
L	0.140	0.190	3.56	4.83	
М	0.045	0.055	1.14	1.40	
N	0.080	0.115	2.03	2.92	



Curve Characteristics

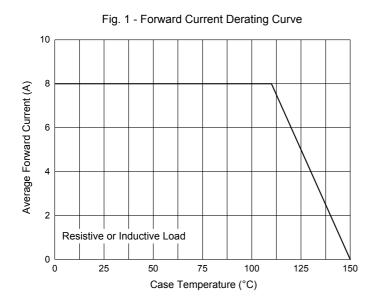
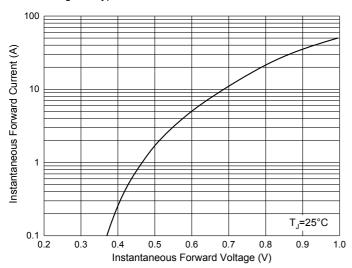


Fig. 3 - Typical Instantaneous Forward Characteristics



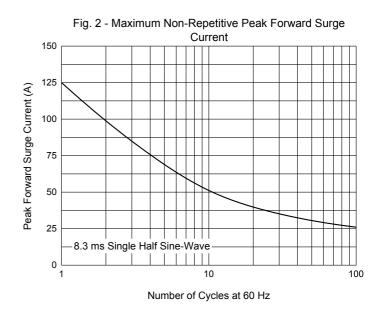
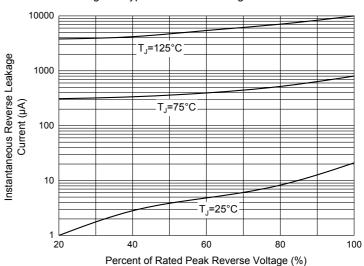


Fig. 4 - Typical Reverse Leakage Characteristics





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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