

Features

- Guard Ring For Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capacity, High Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates RoHS 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: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Thermal Resistance 2.0°C/W Junction to Case
- Mounting Torgue: 5 in-lbs Maximum

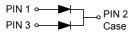
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR16100CT	MBR16100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

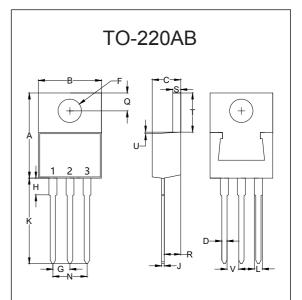
Average Forward Current	I _{F(AV)}	16A	T _C =100°C	
Peak Forward Surge Current	I _{FSM}	125A	8.3ms,Half Sine	
Maximum Forward Voltage Drop Per Element	V _F	0.85V 0.75V	I _{FM} =8A T _J =25°C T _J =125°C	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 2mA	T _J =25°C; T _J =125°C	
Typical Junction Capacitance	Сл	275pF	Measured at 1.0MHz, V _R =4.0V	

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

Internal Structure



16 Amp Schottky Barrier Rectifier 100 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

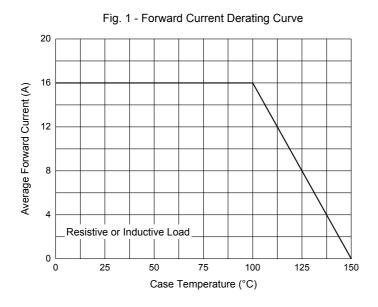
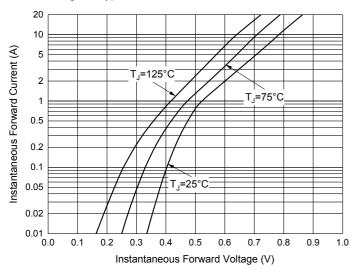


Fig. 3 - Typical Instantaneous Forward Characteristics



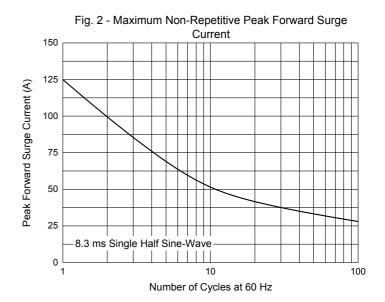
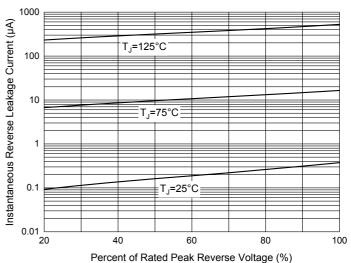


Fig. 4 - Typical Reverse Leakage Characteristics





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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