

Features

- · High Surge Capacity, High Current Capability
- Low Power Loss, High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

Operating Junction Temperature Range: -55°C to +150°C

Storage Temperature Range: -55°C to +175°C
Thermal Resistance: 2°C/W Junction to Case

• Mounting Torgue: 5 in-lbs Maximum

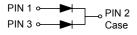
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1620CT	MBR1620CT	20V	14V	20V
MBR1630CT	MBR1630CT	30V	21V	30V
MBR1635CT	MBR1635CT	35V	24.5V	35V
MBR1640CT	MBR1640CT	40V	28V	40V
MBR1645CT	MBR1645CT	45V	31.5V	45V
MBR1660CT	MBR1660CT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

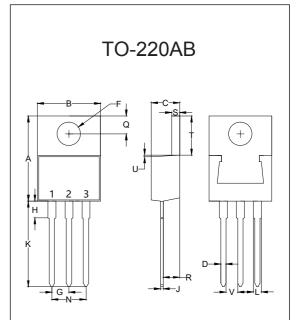
Average Forward Current	I _{F(AV)}	16A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms,Half Sine
Maximum Forward Voltage Drop Per Element 1620CT-1645CT 1660CT 1620CT-1645CT 1660CT	V _F	0.70V 0.80V 0.57V 0.70V	I _{FM} =8A; T _J =25°C T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 10mA	T _J =25°C T _J =100°C
Typical Junction Capacitance 1620CT-1645CT 1660CT	CJ	300pF 400pF	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 20 to 60 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

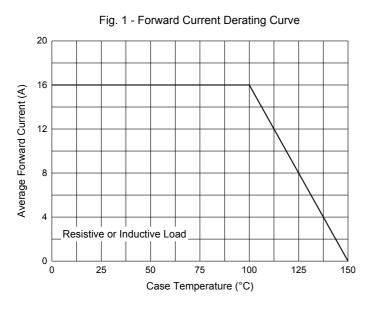
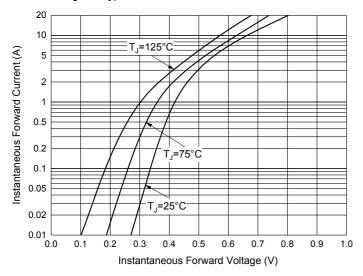


Fig. 3 - Typical Instantaneous Forward Characteristics



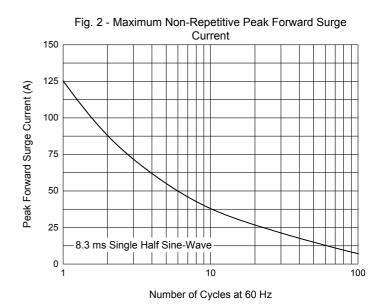
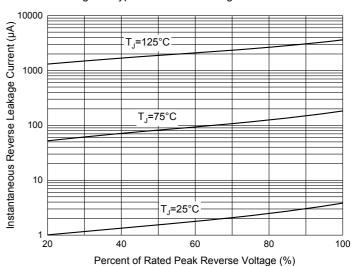


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-BP	Bulk:1Kpcs/Box

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

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