

Features

- Guard Ring For Transient Protection
- · High Current Capability, High Efficiency
- Low Forward Voltage Drop
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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
- Mounting Torgue: 5 in-lbs Maximum
- 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
MBR2020CT	MBR2020CT	20V	14V	20V
MBR2030CT	MBR2030CT	30V	21V	30V
MBR2035CT	MBR2035CT	35V	24.5V	35V
MBR2040CT	MBR2040CT	40V	28V	40V
MBR2045CT	MBR2045CT	45V	31.5V	45V
MBR2060CT	MBR2060CT	60V	42V	60V
MBR2080CT	MBR2080CT	80V	56V	80V
MBR20100CT	MBR20100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20A	T _C =120°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage 2020CT-2045CT 2060CT 2080CT-20100CT 2020CT-2045CT 2060CT 2080CT-20100CT 2020CT-2045CT 2020CT-2045CT 2060CT 2080CT-20100CT	V _F	0.70V 0.80V 0.85V 0.84V 0.95V 0.95V 0.72V 0.85V 0.85V	I_{FM} =10A; T_{J} =25°C* I_{FM} =20A; T_{J} =25°C* I_{FM} =20A; T_{J} =125°C*
Maximum DC Reverse Current at Rated DC Blocking Voltage 2020CT-20100CT 2020CT-2060CT 2080CT-20100CT		0.1mA 15mA 5mA	T _J =25°C T _J =125°C

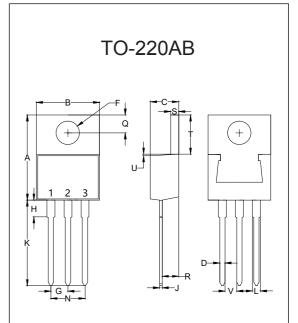
*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

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

Internal Structure



20 Amp Schottky Barrier Rectifier 20 to 100 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
וועו	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

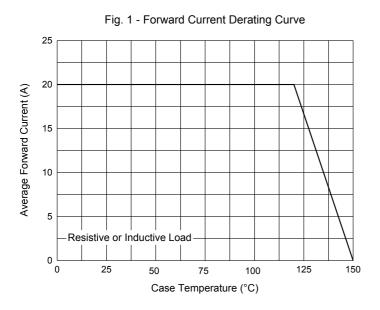


Fig. 3 - Typical Instantaneous Forward Characteristics

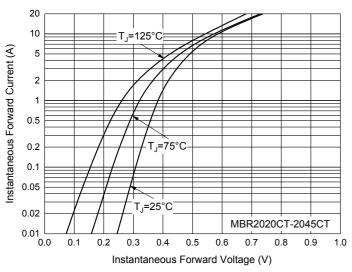


Fig. 5 - Typical Instantaneous Forward Characteristics

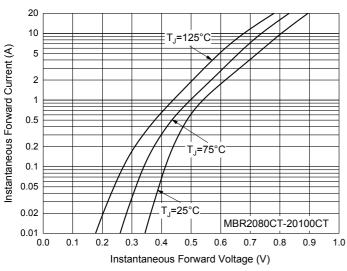


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

175
150
125
100
75

Fig. 4 - Typical Instantaneous Forward Characteristics

Number of Cycles at 60 Hz

8.3ms Single Half Sine-Wave

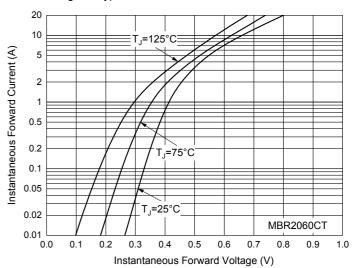
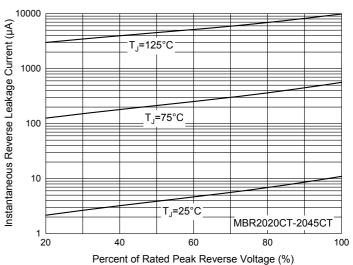


Fig. 6 - Typical Reverse Leakage Characteristics



100

Peak Forward Surge Current (A)

50

25



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

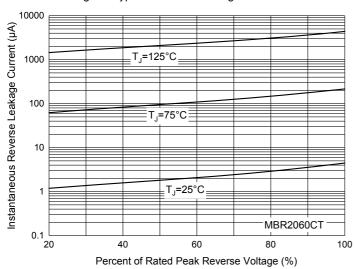
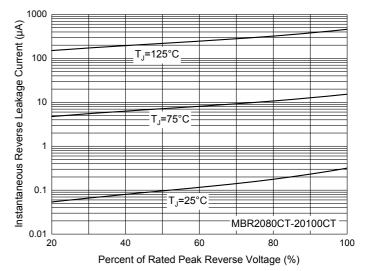


Fig. 8 - Typical Reverse Leakage Characteristics





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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