

#### **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
- Thermal Resistance : 2.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage	
MBR20100CTB	MBR20100CTB	100V	70V	100V	

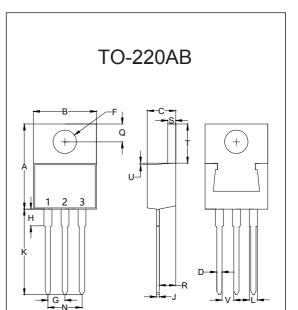
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	20A	T <sub>C</sub> =120ºC
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.85V 0.95V 0.85V	I <sub>FM</sub> =10A;T <sub>J</sub> =25°C I <sub>FM</sub> =20A;T <sub>J</sub> =25°C I <sub>FM</sub> =10A;T <sub>J</sub> =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.01mA 1mA	T <sub>J</sub> =25°C T <sub>J</sub> =125°C

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



# 20 Amp Schottky Barrier Rectifier 100 Volts



DIMENIOLONIO							
	DIMENSIONS						
DIM	INC	INCHES		IM	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				

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## **Curve Characteristics**

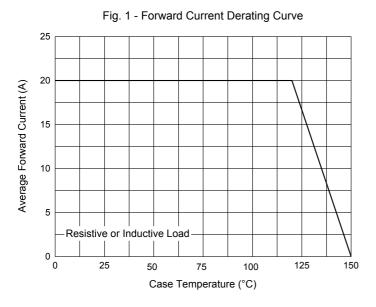


Fig. 3 - Typical Instantaneous Forward Characteristics

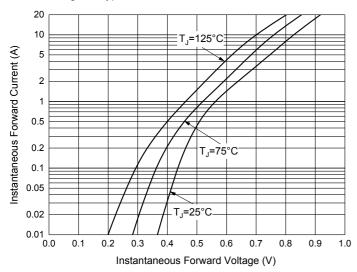


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

175

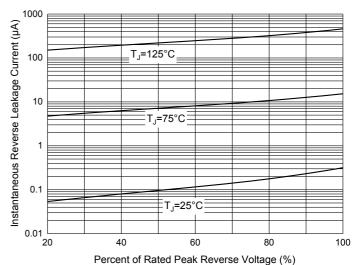
150

150

100

Number of Cycles at 60 Hz

Fig. 4 - Typical Instantaneous Forward 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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