



Micro Commercial Components

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MBR20120CT

Features

- High Junction Temperature Capability
- Good Trade Off Between Leakage Current And Forward Voltage Drop
- Low Leakage Current

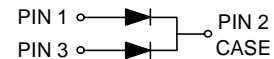
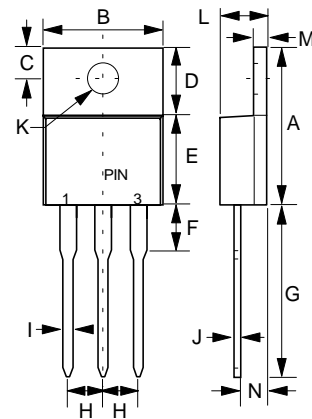
20 Amp High Voltage Power Schottky Barrier Rectifier 120Volts

Maximum Ratings

- Operating Junction Temperature : 150°C
- Storage Temperature: - 50°C to +150°C
- Per diode Thermal Resistance 2.2°C/W Junction to Case

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR 20120 CT	120 V	84V	120 V

TO-220AB



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_C = 120^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine wave
Maximum Instantaneous Forward Voltage	V_F	.83V	$I_{FM} = 10\text{A}$ $T_J = 100^\circ\text{C}$
Maximum Reverse Current At Rated DC Blocking	I_R	500 μA	$T_J = 25^\circ\text{C}$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.570	.620	14.48	15.75	
B	.380	.405	9.66	10.28	
C	.100	.120	2.54	3.04	
D	.235	.255	5.97	6.48	
E	.335	.365	8.51	9.27	
F	.110	.155	2.80	3.93	
G	.500	.562	12.70	14.27	
H	.095	.105	2.42	2.66	
I	.025	.035	0.64	0.89	
J	.016	.025	0.41	0.64	
K	.142	.147	3.61	3.73	∅
L	.160	.190	4.06	4.82	
M	.045	.055	1.14	1.39	
N	0.102 typ.		2.6 typ.		

*Pulse Test: Pulse Width 380 μsec , Duty Cycle 2%

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Figure 1
Typical Forward Characteristics

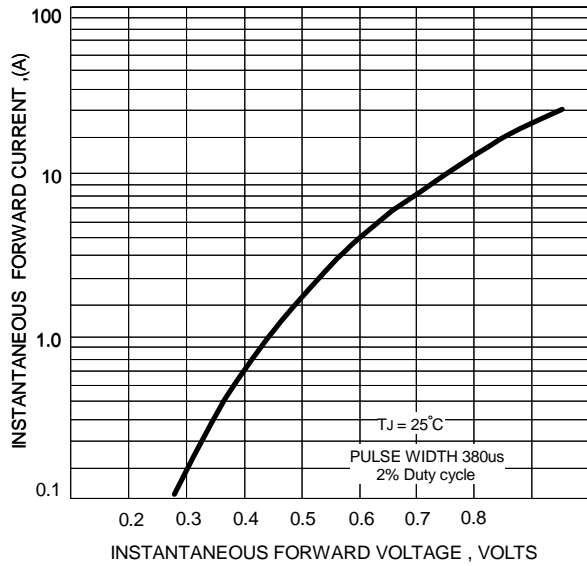
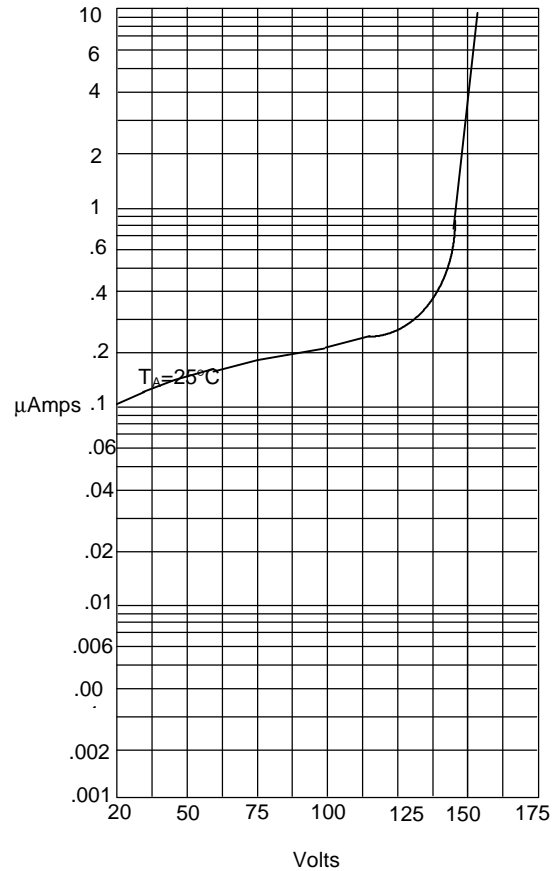
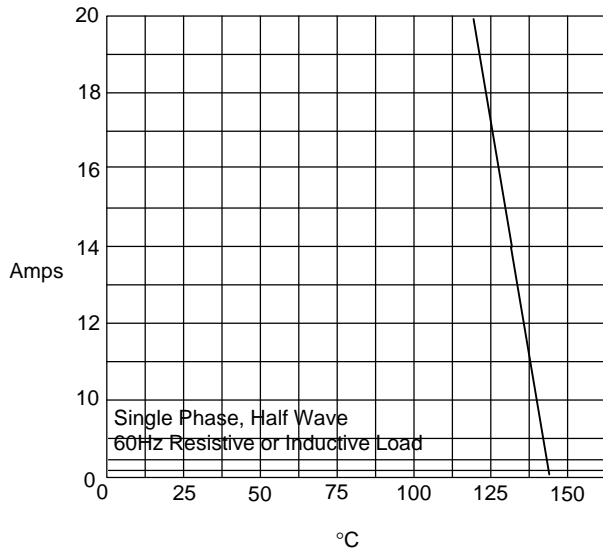


Figure 2
Typical Reverse Characteristics



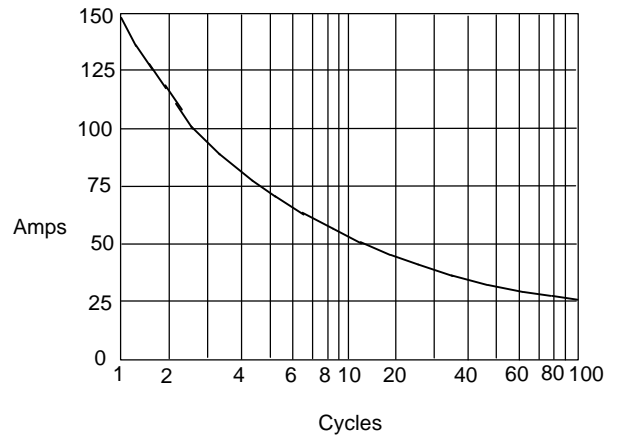
Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles