



Micro Commercial Components
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MBR20020CT THRU MBR200100CT

Features

- Metal of siliconrectifier, majonty carrier conducton
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability

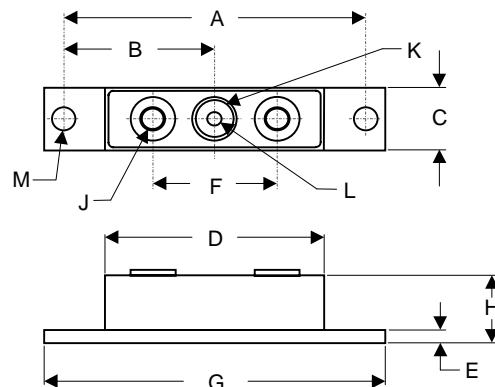
200 Amp Schottky Barrier Rectifier 20 to 100 Volts

Maximum Ratings

- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20020CT	20V	14V	20V
MBR20030CT	30V	21V	30V
MBR20035CT	35V	24.5V	35V
MBR20040CT	40V	28V	40V
MBR20045CT	45V	31.5V	45V
MBR20060CT	60V	42V	60V
MBR20080CT	80V	56V	80V
MBR200100CT	100V	70V	100V

FULL PACK



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	200 A	$T_C = 136^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.68 V .75 V .84 V	$I_{FM} = 100 \text{ A};$ $T_J = 25^\circ\text{C}$
20020-20045CT			
20060CT			
20080-200100CT			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5mA 75mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical Junction Capacitance	C_J	4600pF	Measured at 1.0MHz, $V_R=5.0\text{V}$

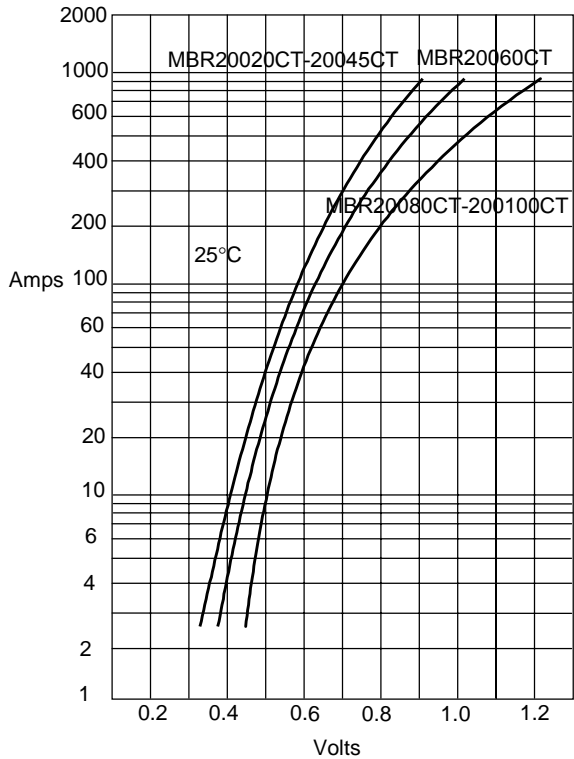
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	3.150	NOM	80.01	NOM	
B	1.565	1.585	39.75	40.26	
C	.700	.800	17.78	20.32	
D	2.400	2.500	60.96	63.50	
E	.119	.132	3.02	3.35	
F	1.375	REF	34.92	REF	
G	3.550	3.650	90.17	92.71	
H	.580	.620	14.73	15.75	
J	1/4 -20 UNF		FULL		
K	.380	.410	9.65	10.41	∅
L	.185	.195	4.70	4.95	∅
M	.275	.295	6.99	7.49	∅

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

MBR20020CT thru MBR200100CT

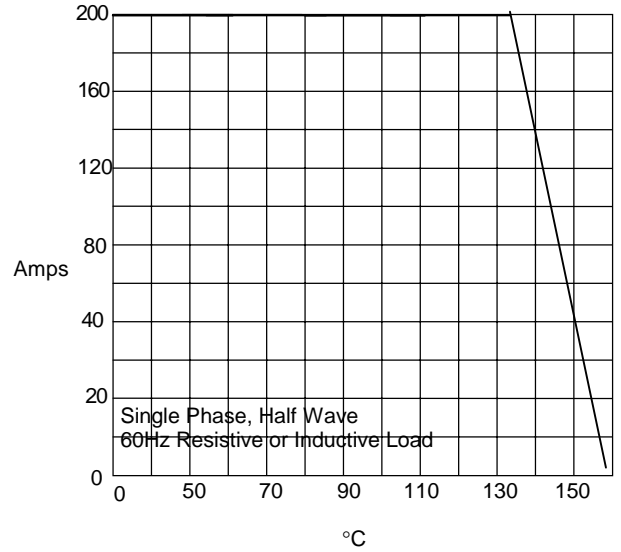


Figure 1
Typical Forward Characteristics



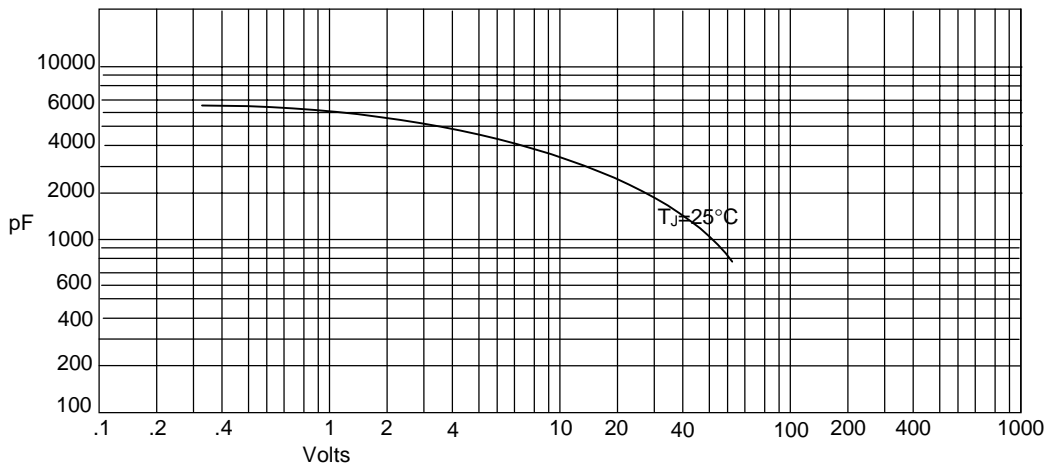
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

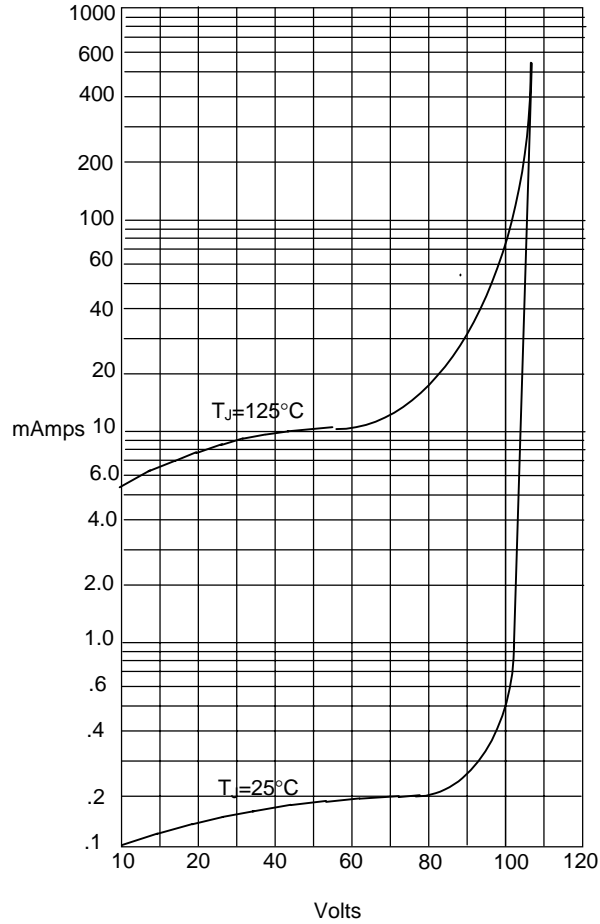
Figure 3
Junction Capacitance



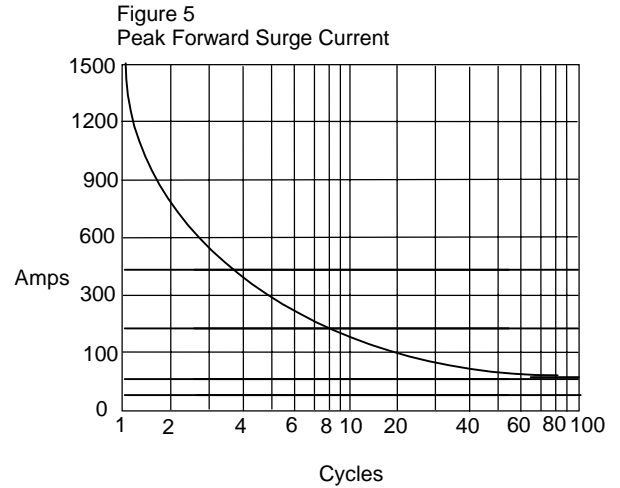
Junction Capacitance - pF versus
Reverse Voltage - Volts



Figure 4
Typical Reverse Characteristics



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



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