Micro Commercial Components
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MBR2020FCT THRU MBR20100FCT

20 Amp Schottky Barrier Rectifier 20 to 100 Volts

Features

- High Surge Capacity
- Low Forward Voltage Drop
- High Current Capability, High Efficiency
- Marking : type number
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

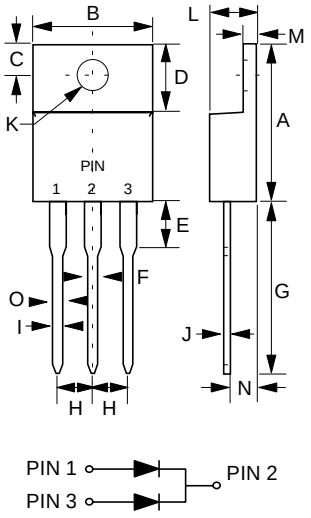
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR2020FCT	20V	14V	20V
MBR2030FCT	30V	21V	30V
MBR2035FCT	35V	24.5V	35V
MBR2040FCT	40V	28V	40V
MBR2045FCT	45V	31.5V	45V
MBR2060FCT	60V	42V	60V
MBR2080FCT	80V	56V	80V
MBR20100FCT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	T_A = 120°C
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
2020FCT-2045FCT	V_F	.70V	I_{FM} = 10A;
2060FCT		.80V	T_A =25°C
2080FCT-20100FCT		.85V	
2020FCT-2045FCT		.84V	I_{FM} = 20A;
2060FCT		.95V	T_A =25°C
2080FCT-20100FCT		.95V	
2020FCT-2045FCT		.72V	I_{FM} = 20A;
2060FCT		.85V	T_A =125°C
2080FCT-20100FCT		.85V	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R		
2020FCT~2045FCT		0.1mA	T_A = 25°C
2060FCT~20100FCT		0.15mA	
2020FCT~2045FCT		50mA	T_A = 125°C
2060FCT~20100FCT		150mA	

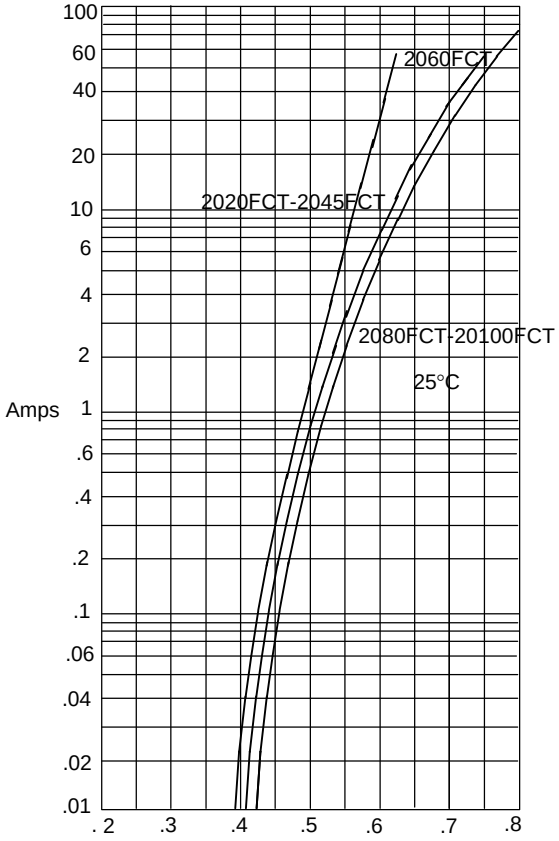
ITO-220AB



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.583	.606	14.80	15.40	
B	---	.406	---	10.30	
C	.100	.112	2.55	2.85	
D	.248	.272	6.30	6.90	
E	---	.161	---	4.10	
F	---	.071	---	1.80	
G	.512	.543	13.00	13.80	
H	.100		2.55		
I	---	.035	---	0.90	
J	---	.032	---	0.80	
K	.118	.134	3.00	3.40	∅
L	---	.189	---	4.80	
M	---	.130	---	3.30	
N	.098	.114	2.50	2.90	
O	---	.055	---	1.40	

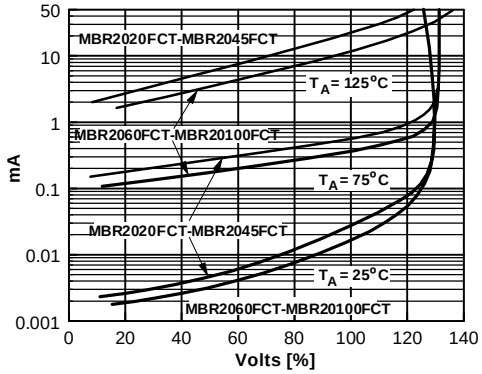
MBR2020FCT thru MBR20100FCT

Figure 1
Typical Forward Characteristics



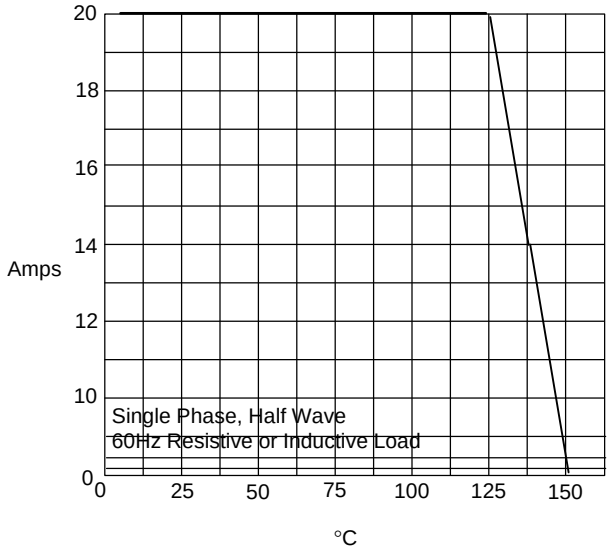
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



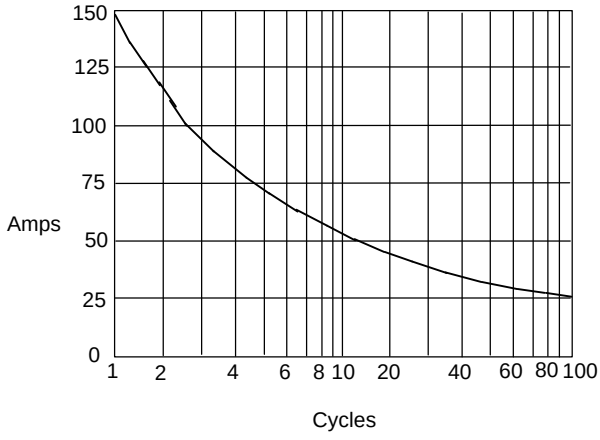
Instantaneous Reverse Leakage Current - mAmpere
Percent Of Rated Peak Reverse Voltage - Volts%

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