



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MBR2020FCT THRU MBR20100FCT

20 Amp Schottky Barrier Rectifier 20 to 100 Volts

Features

- High Surge Capacity
- High Current Capability, High Efficiency
- Marking : type number
- Halogen free available upon request by adding suffix "-HF"
- Low Forward Voltage Drop
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

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

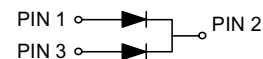
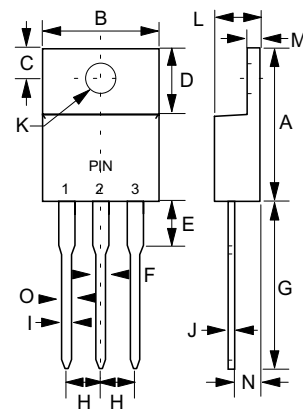
MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR2020FCT	20V	14V	20V
MBR2030FCT	30V	21V	30V
MBR2035FCT	35V	24.5V	35V
MBR2040FCT	40V	28V	40V
MBR2045FCT	45V	31.5V	45V
MBR2060FCT	60V	42V	60V
MBR2080FCT	80V	56V	80V
MBR20100FCT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_A = 120^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.70V .80V .85V .84V .95V .95V	$I_{FM} = 10A;$ $T_A = 25^\circ\text{C}$
2020FCT-2045FCT			
2060FCT			
2080FCT-20100FCT			
2020FCT-2045FCT			
2060FCT			
2080FCT-20100FCT	$I_{FM} = 20A;$ $T_A = 25^\circ\text{C}$		
2020FCT-2045FCT			
2060FCT			
2080FCT-20100FCT			
2020FCT-2045FCT	$I_{FM} = 20A;$ $T_A = 125^\circ\text{C}$		
2060FCT			
2080FCT-20100FCT			
2080FCT-20100FCT			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA 0.05mA 50mA 20mA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
2020FCT~2045FCT			
2060FCT~20100FCT			
2020FCT~2045FCT			
2060FCT~20100FCT			

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

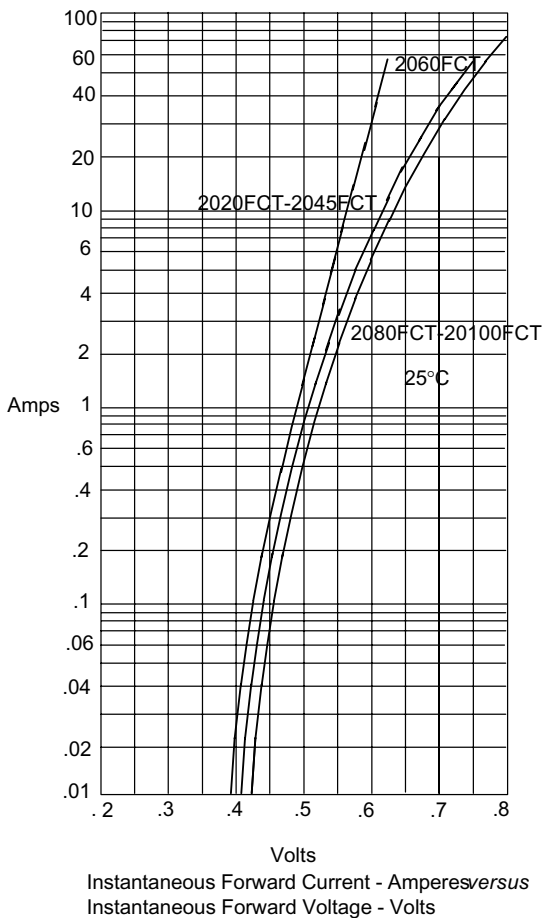
ITO-220AB



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
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	

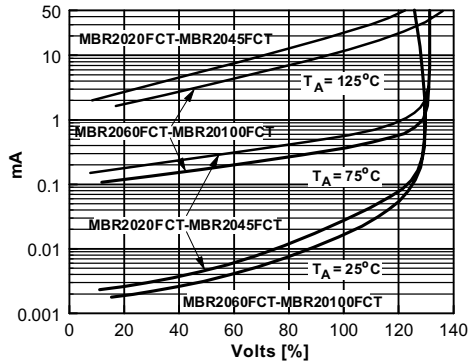
MBR2020FCT thru MBR20100FCT

Figure 1
Typical Forward Characteristics



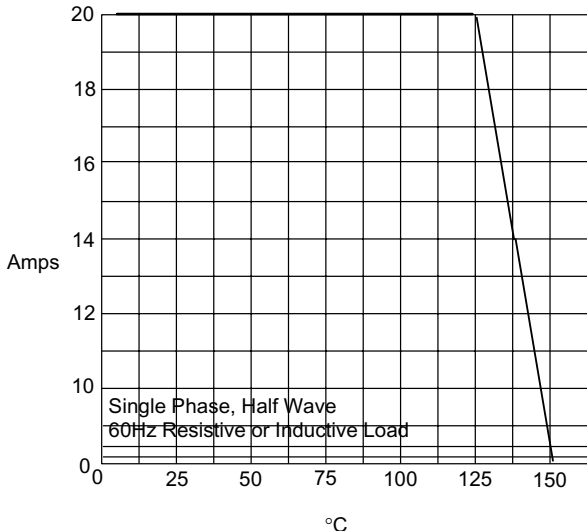
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



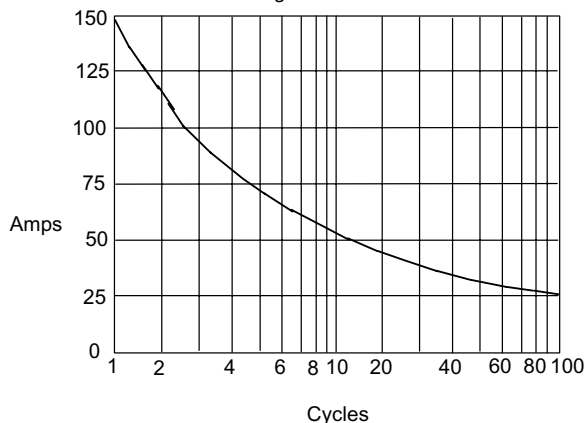
Instantaneous Reverse Leakage Current - mAmpere
Percent Of Rated Peak Reverse Voltage - Volts%

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



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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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