



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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# MBR2020FCT THRU MBR20100FCT

## 20 Amp Schottky Barrier Rectifier 20 to 100 Volts

### Features

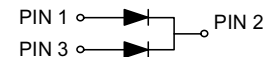
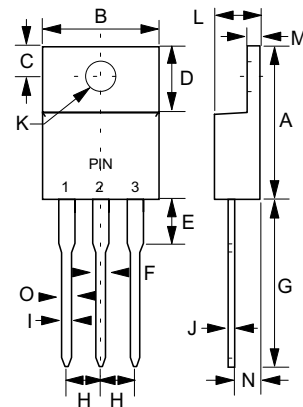
- High Surge Capacity
- High Current Capability, High Efficiency
- Marking : type number
- Halogen free available upon request by adding suffix "-HF"
- Low Forward Voltage Drop
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL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

### ITO-220AB



### 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		$I_{FM} = 20A;$ $T_A = 125^\circ\text{C}$	
2020FCT-2045FCT			
2060FCT			
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.

### DIMENSIONS

DIM	INCHES		MM		NOTE
	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

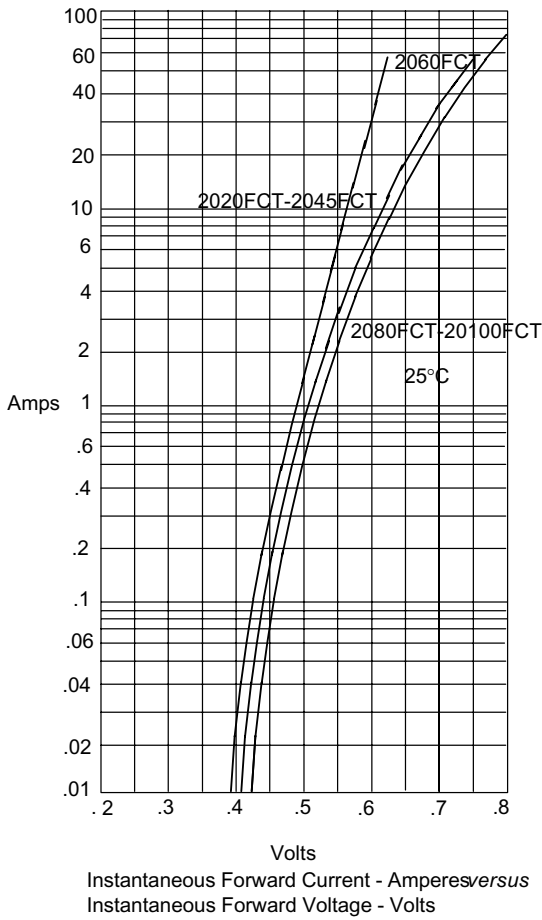


Figure 2  
Typical Reverse Characteristics

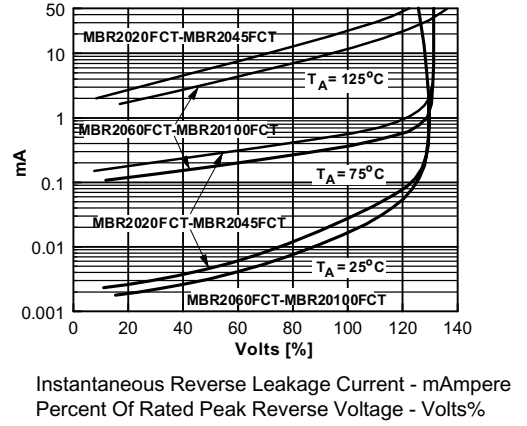


Figure 3  
Forward Derating Curve

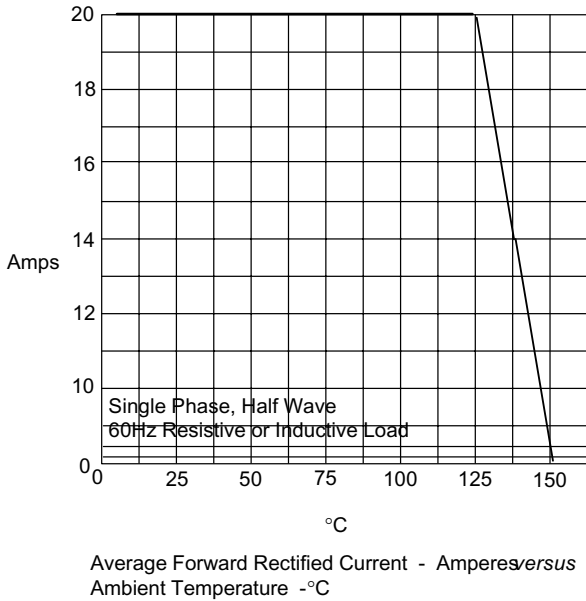
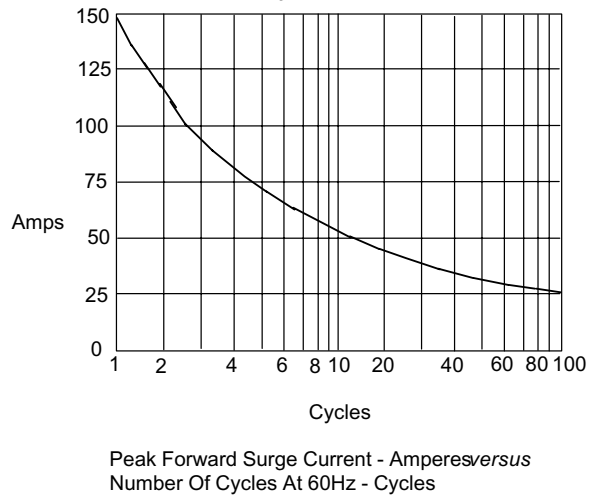


Figure 4  
Peak Forward Surge Current





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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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