



Micro Commercial Components

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

# MBR1020F THRU MBR10100F

## 10 Amp Schottky Barrier Rectifier 20 to 100 Volts

### Features

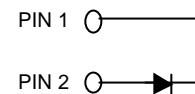
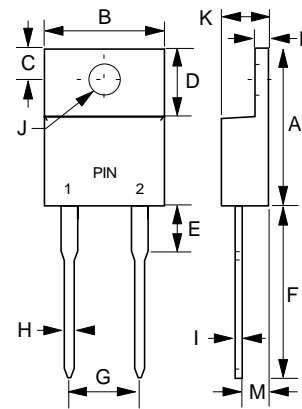
- Low Power Loss
- High Efficiency
- Low Forward Voltage , High Current Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : type number

### Maximum Ratings

- Operating Junction Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1020F	20V	14V	20V
MBR1030F	30V	21V	30V
MBR1040F	40V	26V	40V
MBR1050F	50V	35V	50V
MBR1060F	60V	42V	60V
MBR1080F	80V	56V	80V
MBR1090F	90V	63V	90V
MBR10100F	100V	80V	100V

### ITO-220AC



### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 1020F-1040F 1050F-1060F 1080F-10100F	$V_F$	.55V .75V .85V	$T_J = 25^\circ\text{C}$ $I_{FM} = 10A;$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA 50mA	$T_C = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$

DIM	DIMENSIONS			
	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	.512	.543	13.00	13.80
G	---	.200	---	5.10
H	---	.035	---	0.90
I	---	.032	---	0.80
J	.118	.134	3.00	3.40
K	---	.189	---	4.80
L	---	.123	---	3.10
M	.098	.114	2.50	2.90

MBR1020F thru MBR10100F

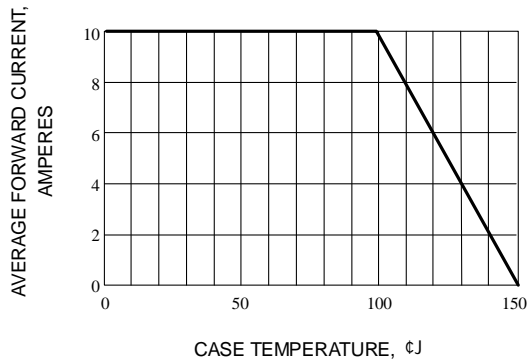


Fig. 1-FORWARD CURRENT DERATING CURVE

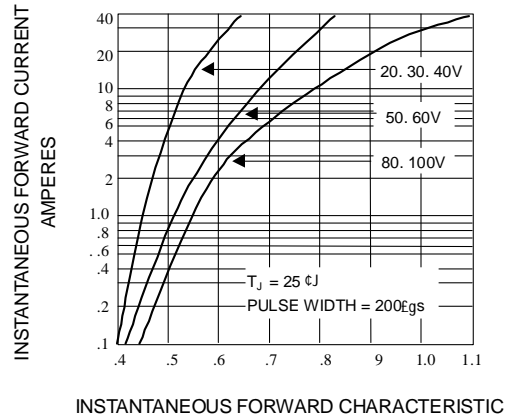


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

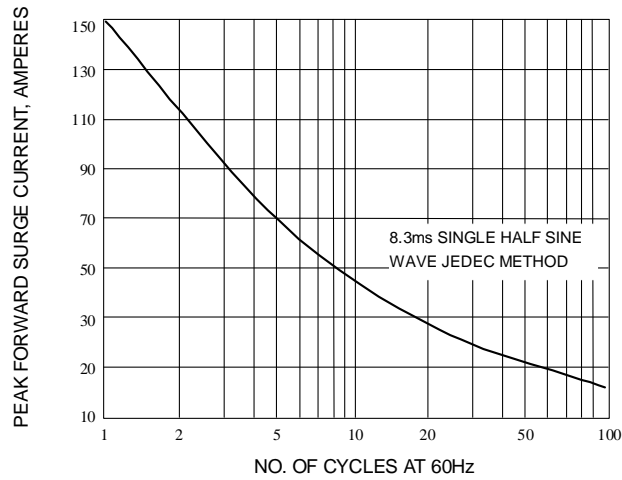


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT



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