



Micro Commercial Components



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MBR1020F THRU MBR10100F

10 Amp Schottky Barrier Rectifier 20 to 100 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Power Loss And High Efficiency
- Low Forward Voltage , High Current Capability
- Marking : type number
- 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 Junction Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

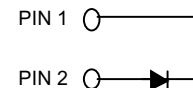
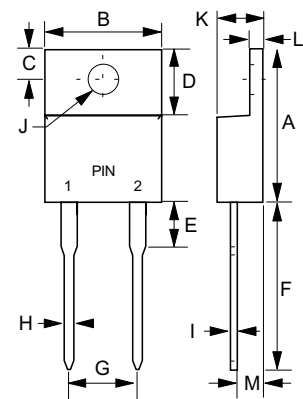
MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1020F	20V	14V	20V
MBR1030F	30V	21V	30V
MBR1040F	40V	26V	40V
MBR1050F	50V	35V	50V
MBR1060F	60V	42V	60V
MBR1080F	80V	56V	80V
MBR1090F	90V	63V	90V
MBR10100F	100V	80V	100V

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	$T_J = 25^\circ\text{C}$ $I_{FM} = 10\text{A};$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5mA 50mA	$T_C = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$

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

ITO-220AC



DIM	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

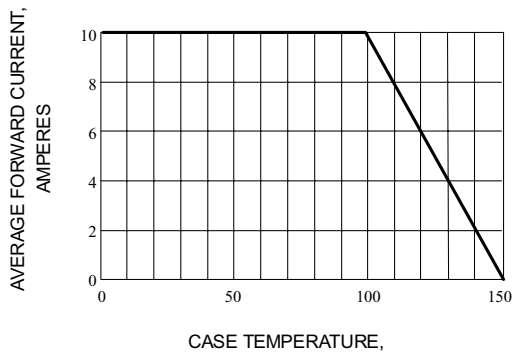


Fig. 1-FORWARD CURRENT DERATING CURVE

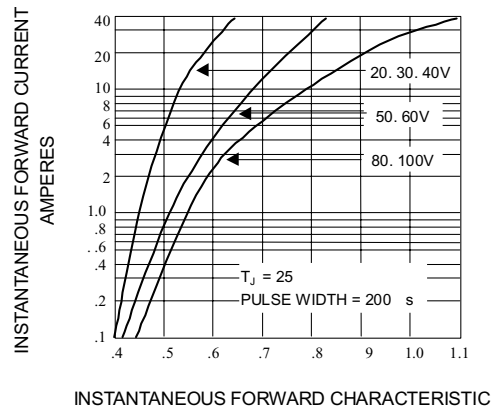


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

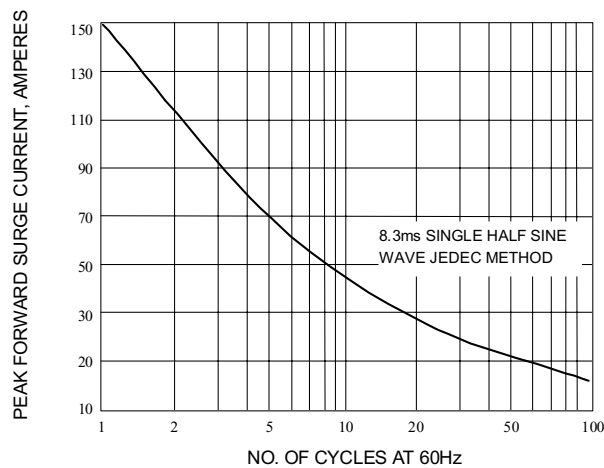


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

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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