



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 **MBR1020 THRU**

MBR10100

10 Amp Schottky Barrier Rectifier 20 to 100 Volts

Features

- Metal of siliconrectifier, majorty carrier conducton
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability
- 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 Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Storage Temperature: -55°C to +150°C
- Mounting Torque: 5 in-lbs Maximum

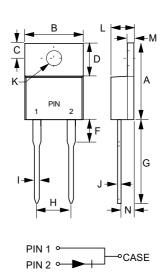
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
MBR1020	MBR1020	20V	14V	20V
MBR1030	MBR1030	30V	21V	30V
MBR1035	MBR1035	35V	24.5V	35V
MBR1040	MBR1040	40V	28V	40V
MBR1045	MBR1045	45V	31.5V	45V
MBR1060	MBR1060	60V	42V	60V
MBR1080	MBR1080	80V	56V	80V
MBR10100	MBR10100	100V	70V	100V

Electrical Characteristics @ 25°CUnless Otherwise Specified

Average Forward Current	I _{F(AV)}	10A	TC = 125°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element MBR1020-1045 MBR1060 MBR1080-10100 MBR1060 MBR1020-1045 MBR1020-1045 MBR1060	V _F	.65V .75V .84V .65V .84V .95V .80V	IFM= 10A IFM= 10A IFM= 10A IFM= 10A,TJ=125°C IFM= 20A IFM= 20A IFM= 20A,TJ=125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.1mA	TJ = 25°C
Junction Temperature MBR1020-MBR1045 MBR1060-MBR10100	TJ	-55~+125℃ -55~+150℃	

Notes1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a

TO-220AC



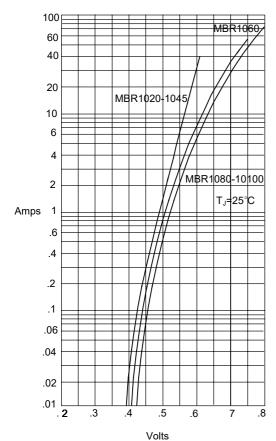
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.560	.625	14.22	15.88		
В	.380	.420	9.65	10.67		
С	.100	.135	2.54	3.43		
D	.230	.270	5.84	6.86		
F		.250		6.35		
G	.500	.580	12.70	14.73		
Ι	.190	.210	4.83	5.33		
	.020	.045	0.51	1.14		
7	.012	.025	0.30	0.64		
K	.139	.161	3.53	4.09	Ø	
L	.140	.190	3.56	4.83		
M	.045	.055	1.14	1.40		
N	.080	.115	2.03	2.92		



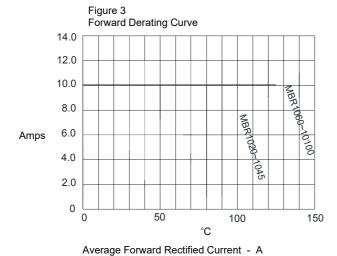
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MBR1020 thru MBR10100

Figure 1
Typical Forward Characteristics

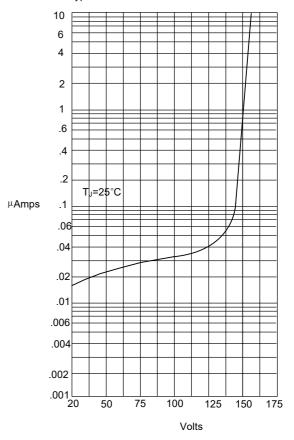


Instantaneous Forward Current - A Instantaneous Forward Voltage - V

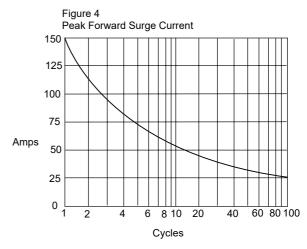


Ambient Temperature -°C

Figure 2
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - uA Percent Of Rated Peak Reverse Voltage - V



Peak Forward Surge Current - A Number Of Cycles At 60Hz - Cycles



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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