

**Micro Commercial Components** 



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

### Features

- Metal of silicon rectifier, majority carrier conduction
- Halogen free available upon request by adding suffix "-HF"
- 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

- Operating Temperature: -55°C to +150°C
- 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		
MBR1520	MBR1520	20V	14V	20V
MBR1530	MBR1530	30V	21V	30V
MBR1535	MBR1535	35V	24.5V	35V
MBR1540	MBR1540	40V	28V	40V
MBR1545	MBR1545	45V	31.5	45V
MBR1560	MBR1560	60V	42V	60V
MBR1580	MBR1580	80V	56V	80V
MBR15100	MBR15100	100V	70V	100V

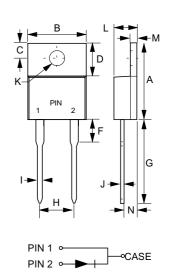
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	15A	T <sub>C</sub> = 125°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element MBR1520-1545 MBR1560 MBR1580-1500	V <sub>F</sub>	.63V .75V .84V	I⊧м = 15 Amper T <sub>A</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.2 mA	T <sub>J</sub> = 25°C

# **MBR1520** THRU **MBR15100**

15 Amp **Schottky Barrier Rectifier** 20 to 100 Volts





DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
A	.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		
Н	.190	.210	4.83	5.33		
	.020	.045	0.51	1.14		
J	.012	.025	0.30	0.64		
К	.139	.161	3.53	4.09	Ø	
L	.140	.190	3.56	4.83		
М	.045	.055	1.14	1.40		
Ν	.080	.115	2.03	2.92		

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

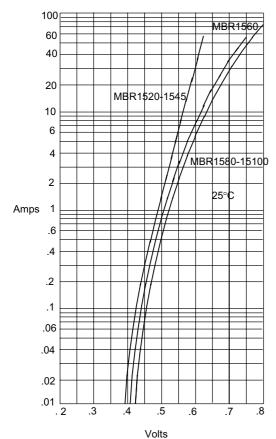
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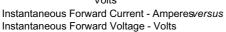


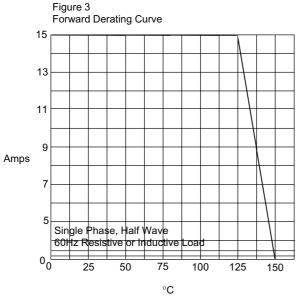
### MBR1520 thru MBR15100

Figure 1

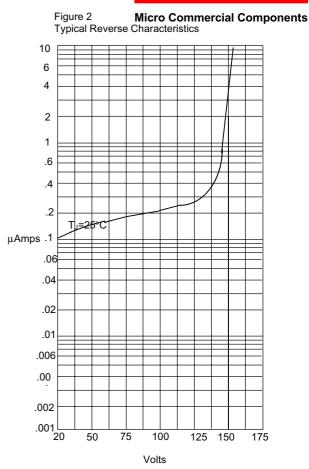
Typical Forward Characteristics



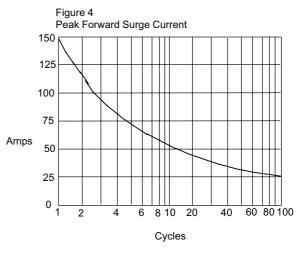




Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $-^{\circ}C$ 



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus 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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