

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818 701-4933) (818 701-4939) Fax:

MBR1620 THRU MBR1660

16 Amp Schottky Barrier Rectifier 20 to 60 Volts

Features

- Metal of silicon rectifier, majority carrier conduction
- 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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

- Maximum Ratings
 Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C

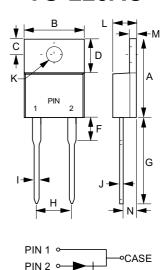
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
MBR1620	MBR1620	20V	14V	20V
MBR1630	MBR1630	30V	21V	30V
MBR1635	MBR1635	35V	24.5V	35V
MBR1640	MBR1640	40V	28V	40V
MBR1645	MBR1645	45V	31.5V	45V
MBR1660	MBR1660	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	16A	T _C = 125°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element MBR1620-1645 MBR1660 MBR1620-1645 MBR1660	V _F	.63V .75V .57V .65V	I _{FM} = 16A T _J = 25°C T _J = 125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage MBR1620-1645 MBR1620-1645 MBR1660	IR	0.2mA 1mA 40mA 50mA	T _J = 25°C T _J = 25°C T _J = 125°C T _J = 125°C
Typical Junction Capacitance	С	450pF	Measured at 1.0MHz, V _R =4.0V

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

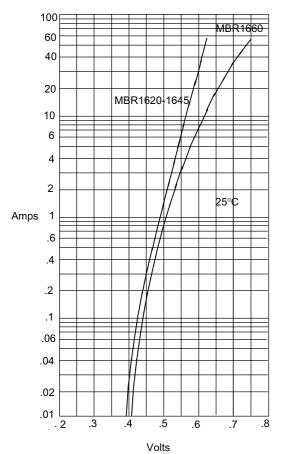
TO-220AC



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		
Н	.190	.210	4.83	5.33		
- 1	.020	.045	0.51	1.14		
J	.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		

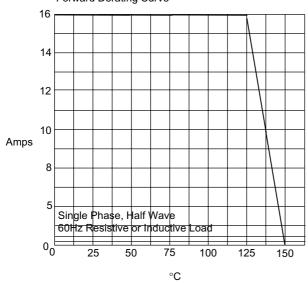


Figure 1 Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

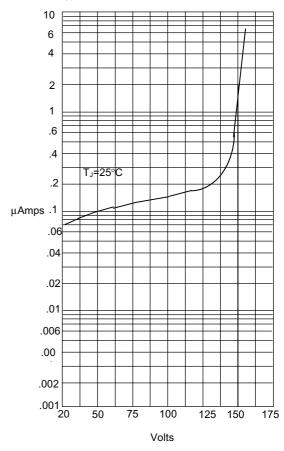
Figure 3 Forward Derating Curve



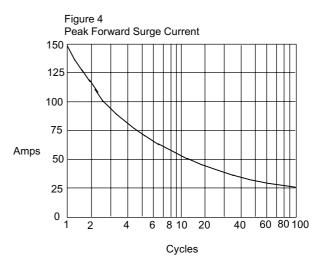
Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



Figure 2 Micro Commercial Components
Typical Reverse Characteristics



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



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



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.