

Micro Commercial Components

ROHS

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

Features

- Halogen free available upon request by adding suffix "-HF" Metal of siliconrectifier, majonty 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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Mounting Torgue: 5 in-lbs Maximum Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C

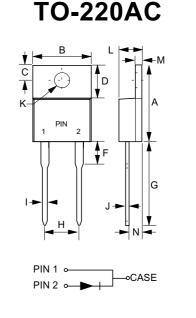
	omporataro.			
Microsemi	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	_	Peak	Voltage	Blocking
		Reverse	-	Voltage
		Voltage		Ũ
MBR720	MBR720	20V	14V	20V
MBR730	MBR730	30V	21V	30V
MBR735	MBR735	35V	24.5V	35V
MBR740	MBR740	40V	28V	40V
MBR745	MBR745	45V	31.5V	45V
MBR760	MBR760	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	7.5A	T _C = 125°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element MBR720-745 MBR760	V _F	.84V .75V	$I_{FM} = 15 \text{ A mper}$ $I_{FM} = 7.5 \text{ A mper}$ $T_A = 25^{\circ}\text{C} (Note 2)$
Maximum DC Reverse Current At Rated DC Blocking Voltage MBR720-745 MBR760 MBR720-745 MBR760	I _R	0.1mA 0.5mA 15mA 50mA	$T_{J} = 25^{\circ}C$ $T_{J} = 125^{\circ}C$
Typical Junction Capacitance	CJ	400pF	Measured at 1.0MHz, V _R =4.0V

MBR720 THRU **MBR760**

7.5 Amp **Schottky Barrier** Rectifier 20 to 60 Volts



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.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.

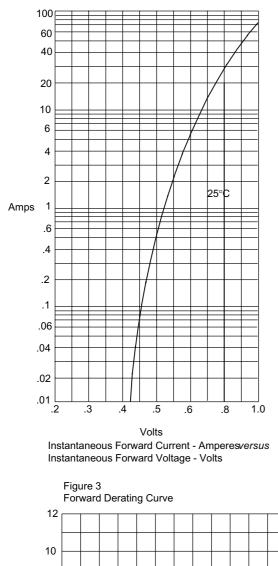
2. Pulse test: Pulse width 300 $\,\mu sec,$ Duty cycle 2%

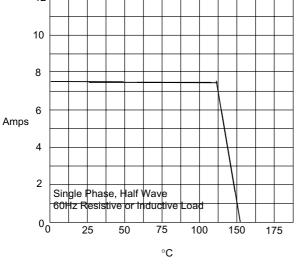


MBR720 thru MBR760

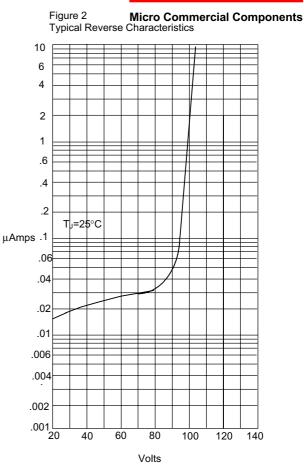
Figure 1

Typical Forward Characteristics

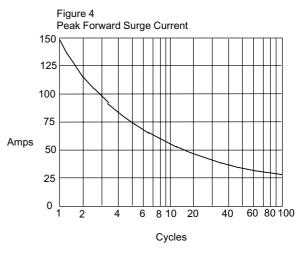




Average Forward Rectified Current - Amperes/ersus Ambient Temperature $-^\circ C$



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



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

- www.mccsemi.com



Ordering Information

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****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.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com