



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **MBR30100CT**

30 Amp Schottky Barrier

Rectifier 100 Volts TO-220AB

← B →	→ C ←
F .	→ ← S
Q	Ţ
	1
A	<u>*</u>
	u 🗸 📗
1 2 3	
↑ н	
▎ │ ★── Ы│५८│८	H
ĸ	
↓	
	.
L→ I←I I	J → ←
G → ←	→ ← R
→ N ←	

		FINS	· •	- 0/10	_
		DIME	ENSIONS		
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
Н		.250		6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
Т	.230	.270	5.84	6.86	
U		.050		1.27	
V	.045		1.15		

PIN 2

Features

- Halogen free available upon request by adding suffix "-HF"
- Metal of siliconrectifier, majority carrier conduction
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- · High surge capacity, High current capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: 55°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR30100CT	MBR30100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	30A	T _C = 125°C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	.85V	T _J = 25°C I _{FM} = 15A;
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	500uA 7mA	T _J = 25°C T _J = 125°C

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

RATING AND CHARACTERISTIC CURVES MBR30100CT

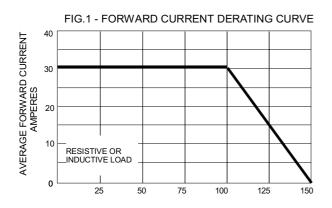
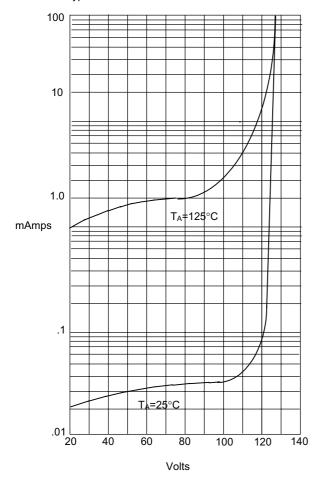


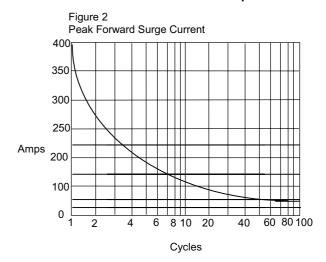
Figure 3
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts

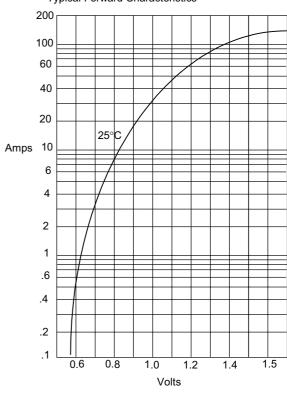


Micro Commercial Components



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

Figure 4
Typical Forward Characteristics



Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts



Micro Commercial Components

Ordering Information:

Device	Packing
Part Number-BP	Bulk: 1Kpcs/Box

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

This datasheet has been downloaded from:

www. Data sheet Catalog.com

Datasheets for electronic components.