



ZIBO MICRO COMMERCIAL COMPONENTS CORP.



ADD:ZhangLiu Road No.6
Zhangdian Zibo Shandong
P.C.:255000
Tel:+86-533-3032000/3032025
Fax:+86-533-3112884

MBRB30100CT

30 Amp Schottky Barrier Rectifier 100 Volts

Features

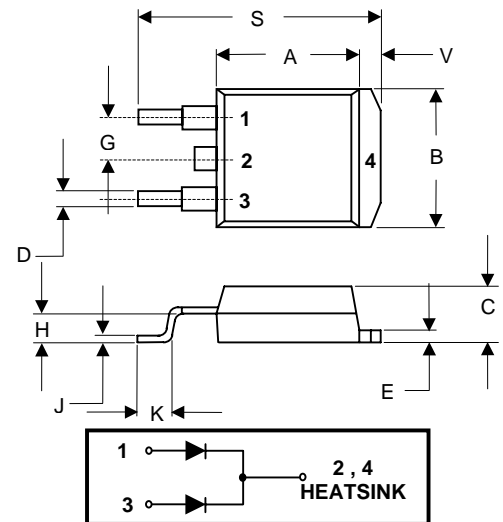
- Halogen free available upon request by adding suffix "-HF"
- Metal of siliconrectifier, majority carrier conduction
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High surge capacity, High current capability
- Epoxy meets UL 94 V-0 flammability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

Maximum Ratings

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

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB30100CT	MBRB30100CT	100V	70V	100V

D²-PACK



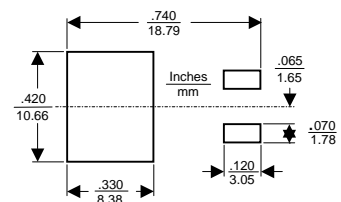
Electrical Characteristics @ 25°C Unless Otherwise Specified

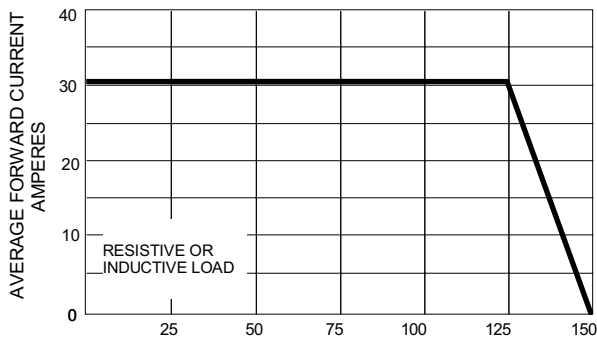
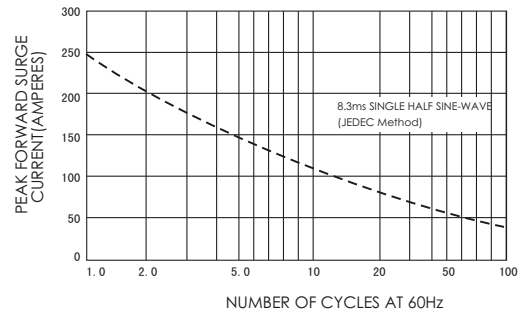
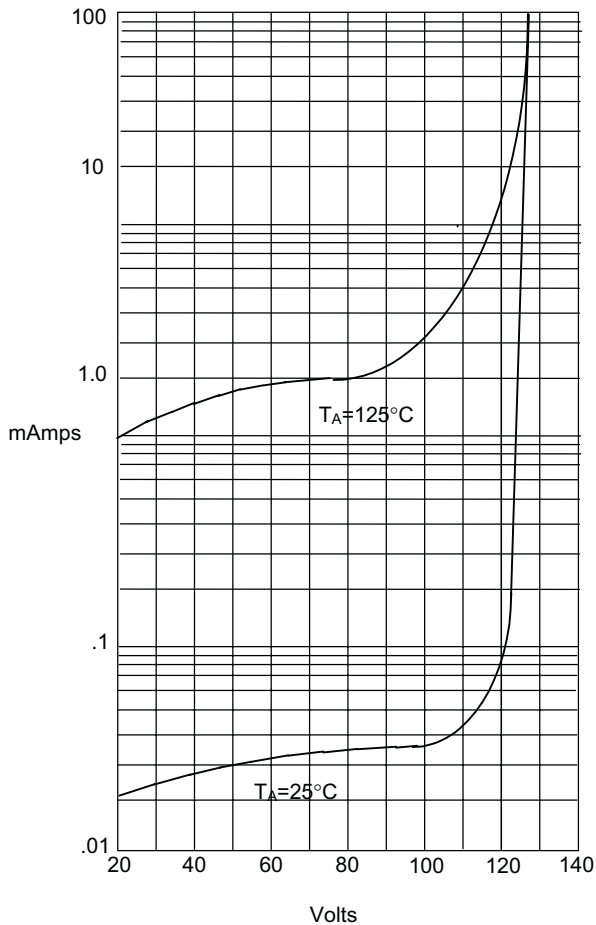
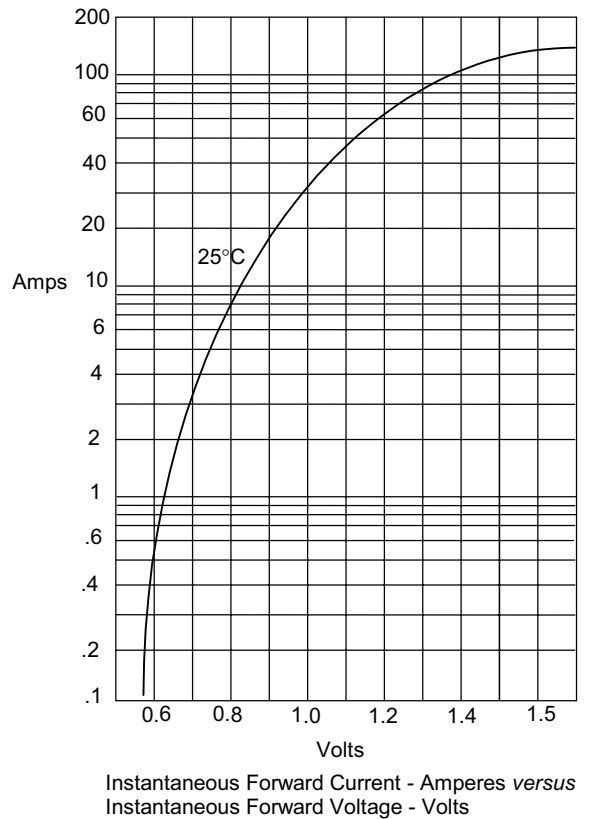
Average Forward Current	$I_{F(AV)}$	30A	$T_C = 125^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.85V	$T_J = 25^\circ\text{C}$ $I_{FM} = 15\text{A};$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	500uA 7mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$

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

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.320	.359	8.13	9.14	
B	.380	.411	9.65	10.45	
C	.160	.190	4.06	4.83	
D	.020	.035	0.51	0.89	
E	.045	.055	1.14	1.40	
G	.095	.105	2.41	2.67	
H	.096	.120	2.43	3.03	
J	.014	.021	0.35	0.53	
K	.090	.110	2.29	2.79	
S	.575	.625	14.60	15.80	
V	.045	.055	1.14	1.40	

SUGGESTED SOLDER PAD LAYOUT



**RATING AND CHARACTERISTIC CURVES
MBRB30100CT**
FIG.1 - FORWARD CURRENT DERATING CURVE

**FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER DIODE**

**Figure 3
Typical Reverse Characteristics**

**Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts**
**Figure 4
Typical Forward Characteristics**

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



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Ordering Information :

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

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

*****LIFE SUPPORT*****

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

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuine parts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC 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.