

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933

(818) 701-4939 Fax:

## **MBR16100CT**

### eatures 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

# **16 Amp Schootky Barrier Rectifier** 100 Volts

## **Maximum Ratings**

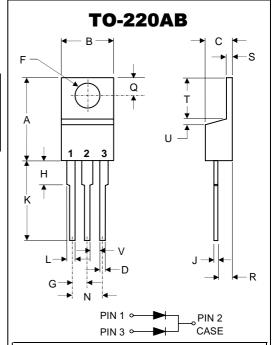
- Operating Temperature :-50°C to +150°C
- Storage Temperature: -50°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR16100CT	MBR16100CT	100 V	70V	100 V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	16A	T <sub>C</sub> = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	125A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	VF	.85V .75V	I <sub>FM</sub> = 8A T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.1mA 100mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Typical Junction Capacitance	C٦	275pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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



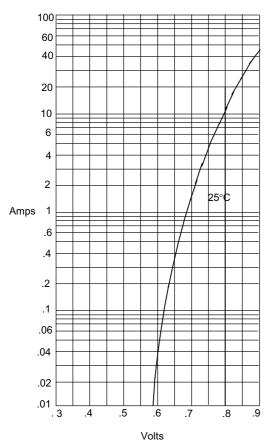
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.560	.625	14.22	15.88		
В	.380	.420	9.65	10.67		
С	.140	.190	3.56	4.82		
D	.020	.045	0.51	1.14		
F	.139	.161	3.53	4.09	Ø	
G	.190	.110	2.29	2.79		
I		.250		6.35		
J	.012	.025	0.30	0.64		
K	.500	.580	12.70	14.73		
L	.045	.060	1.14	1.52		
Ν	.190	.210	4.83	5.33		
Ю	.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			

1 of 3 Revision: 8 2008/01/01

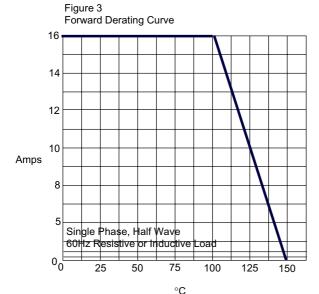


### **MBR16100CT**

Figure 1
Typical Forward Characteristics

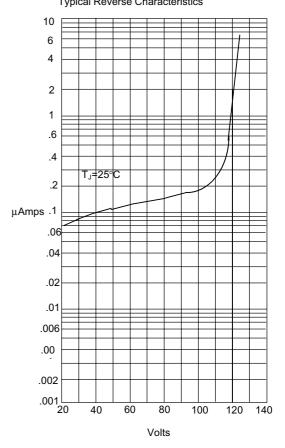


Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts

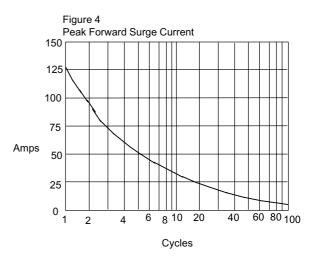


Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Figure 2 Micro Commercial Components
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesversus 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.