

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

# **MBR1080CT THRU MBR10100CT**

**10 Amp Schottky Barrier** Rectifier 80-100 Volts

## **Features**

- Metal of siliconrectifier, majorty 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) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

## **Maximum Ratings**

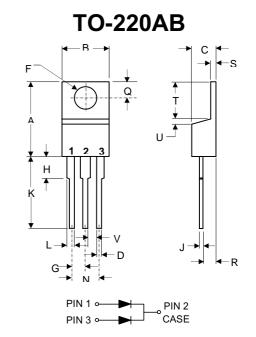
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C
- Mounting Torgue: 5 in-lbs Maximum

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	-	Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
MBR1080CT	MBR1080CT	80V	56V	80V
MBR10100CT	MBR10100CT	100V	70V	100V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	120A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	.85V .75V	I <sub>FM</sub> = 5A T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.2mA 15mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Typical Junction Capacitance	CJ	300pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

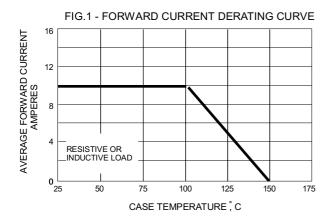


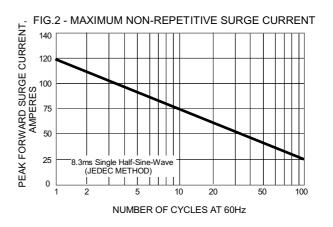
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.560	.625	14.22	15.88		
В	.380	.420	9.65	10.67		
С	.140	.190	3.56	4.82		
D	.020	.045	0.51	1.14		
F	.139	.161	3.53	4.09	Ø	
G	.190	.110	2.29	2.79		
Н		.250		6.35		
J	.012	.025	0.30	0.64		
K	.500	.580	12.70	14.73		
L	.045	.060	1.14	1.52		
Ν	.190	.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		
T	.230	.270	5.84	6.86		
U		.050		1.27		
V	.045		1.15			

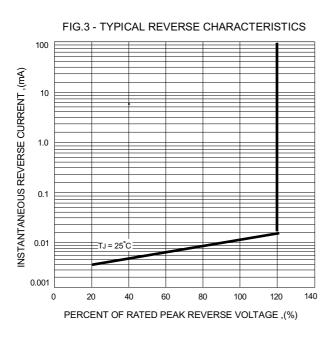


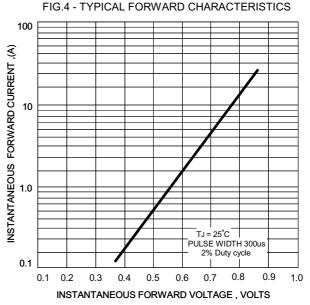


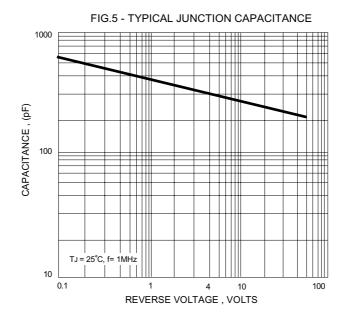
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## **Ordering Information**

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

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

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