



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MBRB2020CT **THRU MBRB20100CT**

Features

- Guard ring for transient protection
- Low Forward Voltage Drop
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: type number
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information

Maximum Ratings
Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C

- Maximum Thermal Resistance: 2.0°C/W Junction to Case

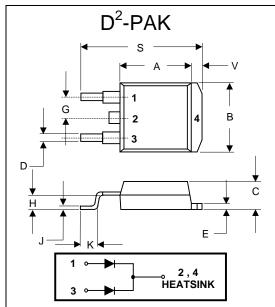
MCC	Maximum	Maximum	Maximum
	Recurrent	RMS	DC
Number	Peak Reverse	Voltage	Blocking
	Voltage		Voltage
MBRB2020CT	20V	14V	20V
MBRB2030CT	30V	21V	30V
MBRB2035CT	35V	24.5V	35V
MBRB2040CT	40V	28V	40V
MBRB2045CT	45V	31.5V	45V
MBRB2060CT	60V	42V	60V
MBRB2080CT	80V	56V	80V
MBRB20100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	I _{F(AV)}	20 A	T _A = 125°C
Current			
Peak Forward Surge	I_{FSM}	150A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
2020CT-2045CT	V_{F}	.84V	$I_{FM} = 20A;$
2060CT		.80V	I _{FM} =10 A
2080CT-20100CT		.85V	T _A = 25°C
Maximum DC			
Reverse Current At			
Rated DC Blocking			
Voltage			
2020CT-2045CT	I _R	0.1mA	$T_A = 25^{\circ}C$
2060CT-20100CT		0.15mA	

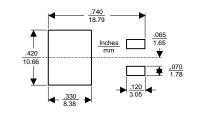
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

20 Amp Schottky Barrier Rectifier 20 to 100 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	.320	.359	8.13	9.14	
В	.380	.411	9.65	10.45	
С	.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	
Н	.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



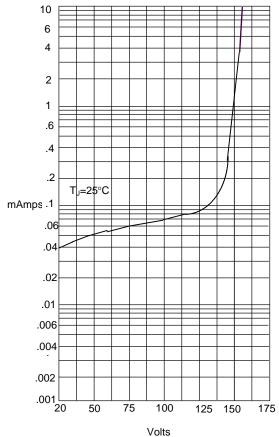
MBRB2020CT thru MBRB20100CT

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Figure 2





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

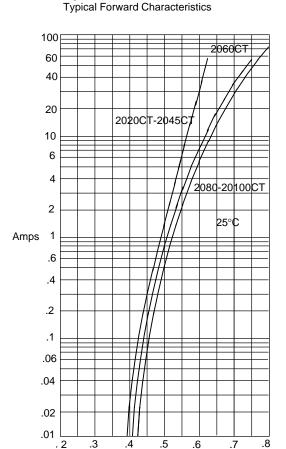
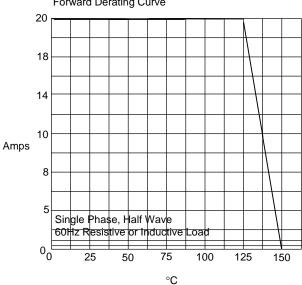


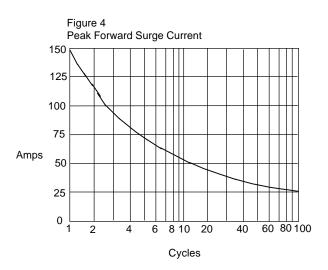
Figure 1

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3 Forward Derating Curve



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



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



Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 800pcs/Reel	
Part Number-BP	Tube: 5Kpcs/Ctn	

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

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