

Micro Commercial Components



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Features

- Meatl of Silicon Rectifier, Majority Conduction Guard ring for transient protection
- High Current Capability, High Efficiency
- Low Forward Voltage Drop Marking : type number
- Halogen free available upon request by adding suffix "-HF"
- 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

Maximum Ratings

- Mounting Torgue: 5 in-lbs Maximum Operating Temperature: -55°C to +150°C Storage Temperature: -55°C to +150°C Maximum Thermal Resistance Junction to Case : 2.0°C/W

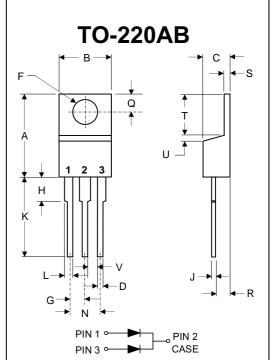
Maximum merma resistance sunction to case . 2.0 C/W					
MCC	Maximum	Maximum	Maximum		
Catalog	Recurrent	RMS	DC		
Number	Peak Reverse	Voltage	Blocking		
	Voltage		Voltage		
MBR2020CT	20V	14V	20V		
MBR2030CT	30V	21V	30V		
MBR2035CT	35V	24.5V	35V		
MBR2040CT	40V	28V	40V		
MBR2045CT	45V	31.5V	45V		
MBR2060CT	60V	42V	60V		
MBR2080CT	80V	56V	80V		
MBR20100CT	100V	70V	100V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	I _{F(AV)}	20 A	T _A = 120°C
Current			
Peak Forward Surge	I _{FSM}	150A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
2020CT-2045CT	V _F	.70V	I _{FM} = 10A;
2060CT		.80V	T _A =25°C *
2080CT-20100CT		.85V	
2020CT-2045CT		.84V	I _{FM} = 20A;
2060CT		.95V	T _A =25°C *
2080CT-20100CT		.95V	
2020CT-2045CT		.72V	I _{FM} = 20A;
2060CT		.85V	T _A =125°C *
2080CT-20100CT		.85V	120 0
Maximum DC Reverse			
Current At Rated DC	I _R		
Blocking Voltage		0.1mA	T _A = 25°C
2020CT~2045CT 2060CT~20100CT		0.15mA	IA - 23 C
2020CT~2045CT		50mA	T _A = 125°C
2060CT~20100CT		150mA	
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MBR2020CT THRU **MBR20100CT**

20 Amp Schottky **Barrier Rectifier** 20 to 100 Volts



	DIMENSIONS				
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.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	
К	.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	
Т	.230	.270	5.84	6.86	
U		.050		1.27	
V	.045		1.15		

*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

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

Revision: C

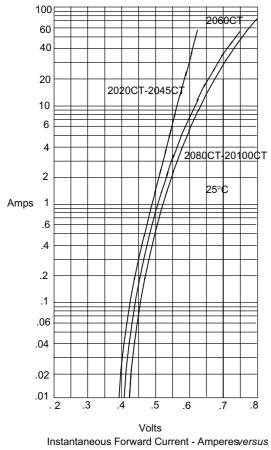
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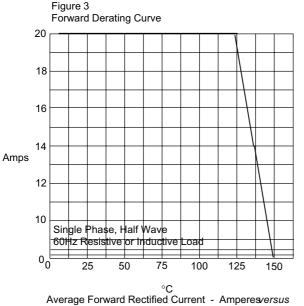
MBR2020CT thru MBR20100CT

Figure 1

Typical Forward Characteristics

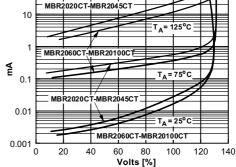


Instantaneous Forward Voltage - Volts

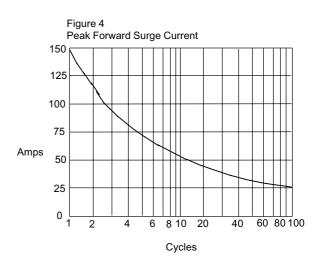


Ambient Temperature -°C

Figure 2 **Micro Commercial Components Typical Reverse Characteristics** 50



Instantaneous Reverse Leakage Current - mAmpere Percent Of Rated Peak Reverse Voltage - Volts%



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

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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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