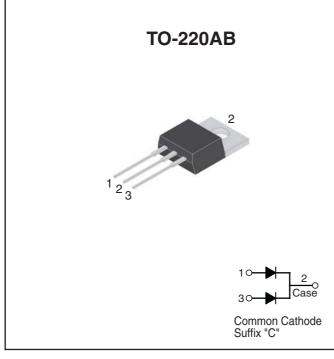
RoHS



20.0 Amp. Schottky Barrier Rectifier



Voltage	Current	
45 to 200 V	20.0 A	

FEATURES

- Ideal for automated placement
- Low power losses, high efficiency
- High surge current capability
- Guarding for overvoltage protection
- Low forward voltage drop
- Solder dip 260°C, 10s / 0.25" (6.35 mm) from case
- Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C

MECHANICAL DATA

- Case: TO-220AB. Epoxy meets UL 94V-0 flammability rating.
- Polarity: As marked on the body.
- Mounting Torque: 5 in-lbs maximum.
- **Terminals:** Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test.

TYPICAL APPLICATIONS

Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.

Maximun Ratings and Electrical Characteristics at 25°C

		MBR2045CT	MBR2060CT	MBR20100CT	MBR20200CT
	Marking Code		MBR2060CT	MBR20100CT	MBR20200CT
V_{RRM}	Peak recurrent reverse voltage (V)	45	60	100	200
V_{RMS}	Maximum RMS voltage (V)	31	42	70	140
V_{DC}	Maximum DC blocking voltage (V)	45	60	100	200
I _{F (AV)}	Maximum average Forward current at Tc= 135 °C (both diodes conducting)	20 A			
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	150 A			
I _{RRM}	Peak repetitive reverse surge current	1.0 A			
T _j	Operating temperature range	− 55 to + 150 °C			
T _{stg}	Storage temperature range	− 55 to + 150 °C			

Electrical Characteristics at Tamb = 25 °C

May forward valtage drag	Tc = 25 °C	0.56 V	0.80 V	0.85 V	0.99 V	
	V_F Max. forward voltage drop at $I_F = 10 \text{ A}$ (Note 1) Max. forward voltage drop		0.56 V	0.00 V		0.00 1
1 ,,		Tc = 125 °C			0.75 V	
VF		Tc = 25 °C	-	-	0.95 V	1
at I _F = 20 A	Tc = 125 °C	1	-	0.85 V		
I_R Max. Instantaneous reverse current at $V_R = V_{RRMax}$	Max. Instantaneous reverse (No	Tc = 25 °C	0.20 mA		0.10 mA	0.20 mA
	current at $V_R = V_{RRMax}$	Tc = 125 °C			5.0 mA	
R _{thj-C}	C Typical Thermal Resistance (Note 2)			2.0	°C/W	

Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle

2. Thermal Resistance from Junction to Case per diode

3. Pulse test: Pulse width ≤ 40ms

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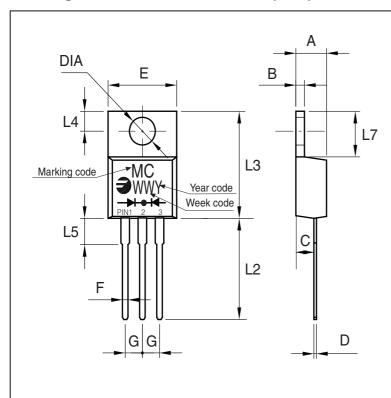
Document Name: mbr20ct



Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
MBR2060CTC 00TUC	TU	TUBE	1,000	0.95

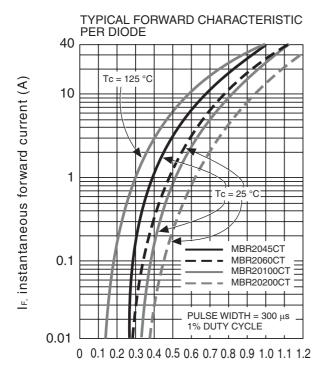
Package Outline Dimensions: (mm) TO-220AB



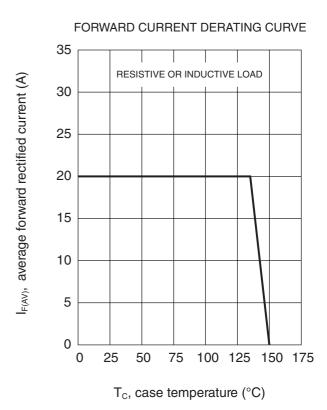
	DIMENSIONS		
REF.	Milimeters		
	Min.	Max.	
Α	4.44	4.76	
В	1.14	1.40	
С	2.54	2.80	
D	0.35	0.64	
E		10.50	
F	0.68	0.94	
G	2.41	2.67	
L2	13.46	14.22	
L3	14.90	16.00	
L4	2.62	3.44	
L5	3.56	4.20	
L7	5.84	6.86	
DIA	3.74	3.91	

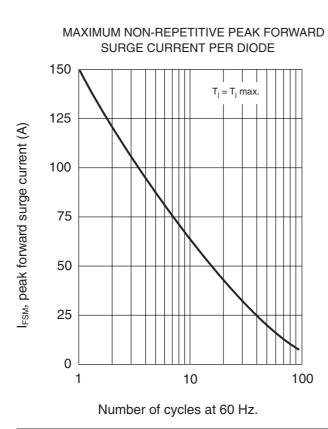


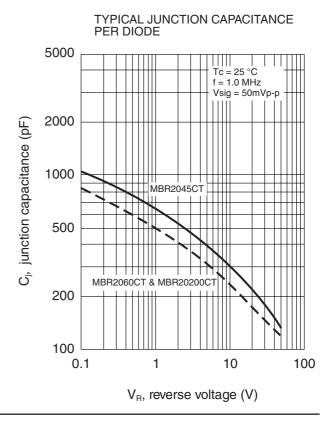
Ratings and Characteristics (Ta 25 °C unless otherwise noted)



V_F, instantaneous forward voltage (V)

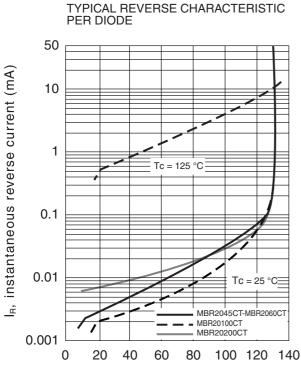


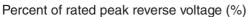


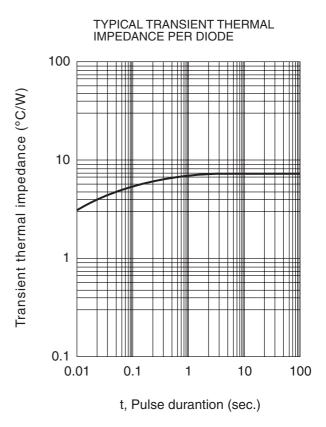




Ratings and Characteristics (Ta 25 °C unless otherwise noted)







Revision: 2



Revision History

Date	Revision	Description of Changes
15-Feb-2012	0	Original Data Sheet
15-Jan-2016	1	Modify IR at 25°C, Base Quantity, Irrm, Rthjc and Tsg
01-Mar-2016	2	Modify IR at 25°C, update VF and IR at 125°C for MBR20100CT

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