

# MBR2030CT-MBR20200CT Schottky Barrier Rectifiers



**VOLTAGE RANGE: 30 - 200 V**

**CURRENT: 20 A**

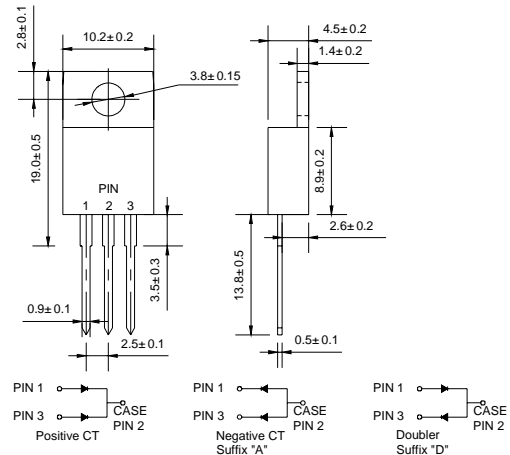
**TO-220AB**

## Features

- ◇ High surge capacity.
- ◇ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ◇ Metal silicon junction, majority carrier conduction.
- ◇ High current capacity, low forward voltage drop.
- ◇ Guard ring for over voltage protection.

## Mechanical Data

- ◇ Case: JEDEC TO-220AB, molded plastic body
- ◇ Polarity: As marked
- ◇ Position: Any
- ◇ Weight: 0.071 ounce, 2.006 grams



Dimensions in millimeters

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

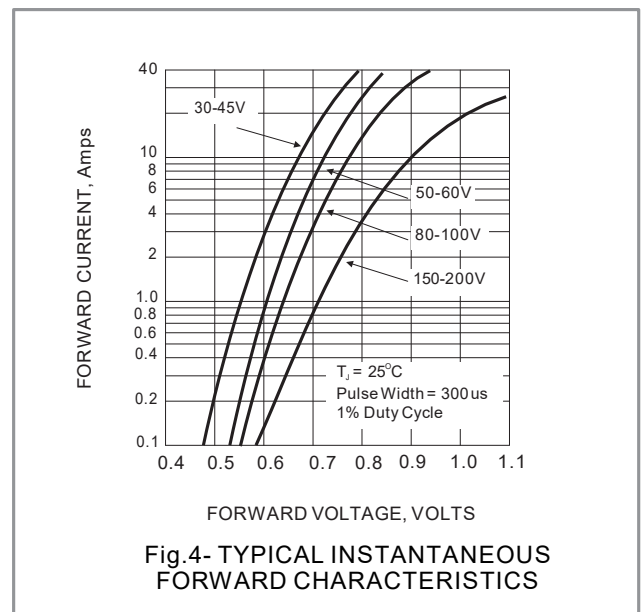
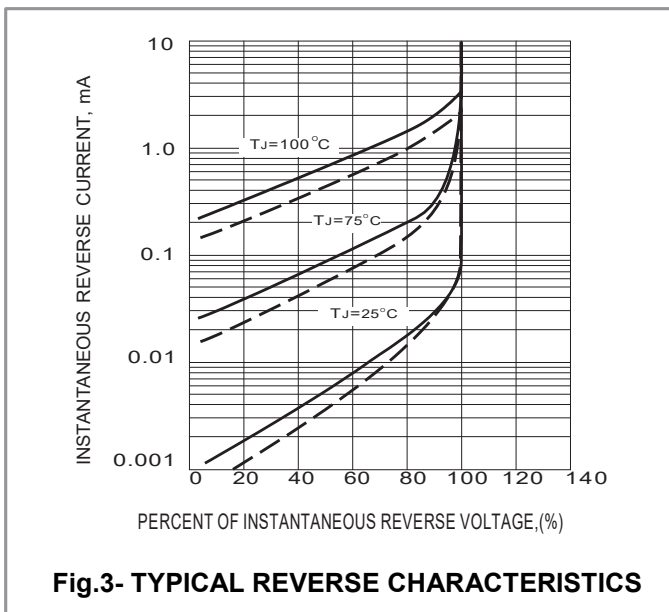
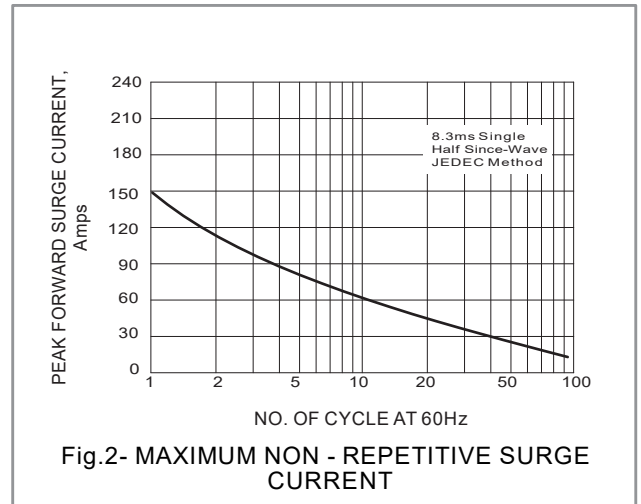
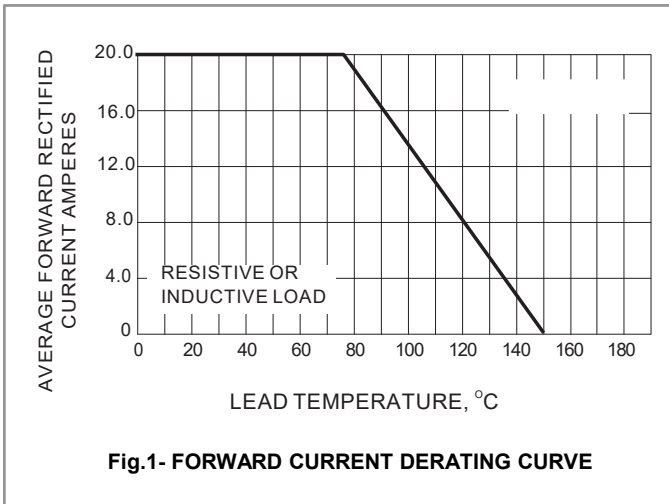
Parameter	Symbol	MBR 2030 CT	MBR 2035 CT	MBR 2040 CT	MBR 2045 CT	MBR 2050 CT	MBR 2060 CT	MBR 2080 CT	MBR 20100 CT	MBR 20150 CT	MBR 20200 CT	UNITS	
Maximum recurrent peak reverse voltage	$V_{RRM}$	30	35	40	45	50	60	80	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	21	25	28	32	35	42	56	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	30	35	40	45	50	60	80	100	150	200	V	
Maximum average forward total device rectified current @ $T_c = 125^\circ\text{C}$	$I_{F(AV)}$	20.0										A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150										A	
Maximum forward voltage (Note1) (15.0A, $T_c = 25^\circ\text{C}$ )	$V_F$	0.65			0.8		0.85		0.95			V	
Maximum reverse current @ $T_c = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_c = 125^\circ\text{C}$	$I_R$	0.1						15					mA
Maximum thermal resistance (Note 2)	$R_{\theta JC}$	2.0										K/W	
Operating junction temperature range	$T_J$	- 55 ---- + 150										°C	
Storage temperature range	$T_{STG}$	- 55 ---- + 150										°C	

NOTE: 1. Pulse test: 300µs pulse width, 1% duty cycle.  
2. Thermal resistance from junction to case.

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## Ratings AND Characteristic Curves



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