



**MBR20045CT thru  
MBR200100CTR**

**V<sub>RRM</sub> = 20 V - 100 V**

**I<sub>F</sub> = 200 A**

#### Features

- High Surge Capability
- Types up to 100 V V<sub>RRM</sub>

**Twin Tower Package**



**Maximum ratings, at T<sub>j</sub> = 25 °C, unless otherwise specified ("R" devices have leads reversed)**

Parameter	Symbol	Conditions	MBR20045CT (R)	MBR20060CT (R)	MBR20080CT (R)	MBR200100CT (R)	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		45	60	80	100	V
RMS reverse voltage	V <sub>RMS</sub>		32	42	56	70	V
DC blocking voltage	V <sub>DC</sub>		45	60	80	100	V
Continuous forward current	I <sub>F</sub>	T <sub>C</sub> ≤ 136 °C	200	200	200	200	A
Surge non-repetitive forward current, Half Sine Wave	I <sub>F,SM</sub>	T <sub>C</sub> = 25 °C, t <sub>p</sub> = 8.3 ms	1500	1500	1500	1500	A
Operating temperature	T <sub>j</sub>		-40 to 175	-40 to 175	-40 to 175	-40 to 175	°C
Storage temperature	T <sub>stg</sub>		-40 to 175	-40 to 175	-40 to 175	-40 to 175	°C

**Electrical characteristics, at T<sub>j</sub> = 25 °C, unless otherwise specified**

Parameter	Symbol	Conditions	MBR20045CT (R)	MBR20060CT (R)	MBR20080CT (R)	MBR200100CT (R)	Unit
Diode forward voltage	V <sub>F</sub>	I <sub>F</sub> = 100 A, T <sub>j</sub> = 25 °C	0.65	0.75	0.84	0.84	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 20 V, T <sub>j</sub> = 25 °C	5	5	5	5	mA
<b>Thermal characteristics</b>							
Thermal resistance, junction - case	R <sub>thJC</sub>		0.5	0.5	0.5	0.5	°C/W



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