

Silicon Power Schottky Diode

V_{RRM} = 20 V - 100 V

I_F = 200 A

Features

- High Surge Capability
- Types up to 100 V V_{RRM}

Twin Tower Package



Maximum ratings, at T_j = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MBR20020CT (R)	MBR20030CT (R)	MBR20035CT (R)	MBR20040CT (R)	Unit
Repetitive peak reverse voltage	V _{RRM}		20	30	35	40	V
RMS reverse voltage	V _{RMS}		14	21	25	28	V
DC blocking voltage	V _{DC}		20	30	35	40	V
Continuous forward current	I _F	T _C ≤ 136 °C	200	200	200	200	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	1500	1500	1500	1500	A
Operating temperature	T _j		-40 to 175	-40 to 175	-40 to 175	-40 to 175	°C
Storage temperature	T _{stg}		-40 to 175	-40 to 175	-40 to 175	-40 to 175	°C

Electrical characteristics, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	MBR20020CT (R)	MBR20030CT (R)	MBR20035CT (R)	MBR20040CT (R)	Unit
Diode forward voltage	V _F	I _F = 100 A, T _j = 25 °C	0.65	0.65	0.65	0.65	V
Reverse current	I _R	V _R = 20 V, T _j = 25 °C V _R = 20 V, T _j = 125 °C	5 200	5 200	5 200	5 200	mA

Thermal characteristics

Thermal resistance, junction - case	R _{thJC}		0.5	0.5	0.5	0.5	°C/W
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