

Silicon Power Schottky Diode

$V_{RRM} = 20 \text{ V - } 100 \text{ V}$

$I_F = 200 \text{ A}$

Features

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

Three Tower Package



Maximum ratings, at $T_j = 25^\circ\text{C}$, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MBRT20045 (R)	MBRT20060 (R)	MBRT20080 (R)	MBRT200100 (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		45	60	80	100	V
RMS reverse voltage	V_{RMS}		32	42	57	70	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Continuous forward current	I_F	$T_C \leq 125^\circ\text{C}$	200	200	200	200	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	1500	1500	1500	1500	A
Operating temperature	T_j		-40 to 150	-40 to 150	-40 to 150	-40 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to 175	-40 to 175	-40 to 175	-40 to 175	$^\circ\text{C}$

Electrical characteristics, at $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	MBRT20045 (R)	MBRT20060(R)	MBRT20080 (R)	MBRT200100 (R)	Unit
Diode forward voltage	V_F	$I_F = 100 \text{ A}, T_j = 25^\circ\text{C}$	0.75	0.8	0.88	0.88	V
Reverse current	I_R	$V_R = 20 \text{ V}, T_j = 25^\circ\text{C}$ $V_R = 20 \text{ V}, T_j = 125^\circ\text{C}$	1	1	1	1	mA
Thermal characteristics							
Thermal resistance, junction - case	R_{thJC}		0.18	0.18	0.18	0.18	$^\circ\text{C/W}$

