

## Silicon Power Schottky Diode

$V_{RRM} = 20 \text{ V - } 100 \text{ V}$   
 $I_F = 400 \text{ A}$

### 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	MBRT40020 (R)	MBRT40030 (R)	MBRT40035 (R)	MBRT40040 (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	$I_F$	$T_C \leq 100^\circ\text{C}$	400	400	400	400	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	3000	3000	3000	3000	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	MBRT40020 (R)	MBRT40030(R)	MBRT40035 (R)	MBRT40040 (R)	Unit
Diode forward voltage	$V_F$	$I_F = 200 \text{ A}, T_j = 25^\circ\text{C}$	0.75	0.75	0.75	0.75	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
<b>Thermal characteristics</b>							
Thermal resistance, junction - case	$R_{thJC}$		0.14	0.14	0.14	0.14	$^\circ\text{C/W}$

