

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}

D-67 Package



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

Parameter	Symbol	Conditions	MBRH20045 (R)	MBRH20060 (R)	MBRH20080 (R)	MBRH200100 (R)	Unit
Repetitive peak reverse voltage	V _{RRM}		45	60	80	100	V
RMS reverse voltage	V _{RMS}		32	42	56	70	V
DC blocking voltage	V _{DC}		45	60	80	100	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	3000	3000	3000	3000	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	MBRH20045 (R)	MBRH20060 (R)	MBRH20080 (R)	MBRH200100 (R)	Unit
Diode forward voltage	V _F	I _F = 200 A, T _j = 25 °C	0.65	0.75	0.84	0.84	V
Reverse current	I _R	V _R = 20 V, T _j = 25 °C	5	5	5	5	mA
		V _R = 20 V, T _j = 125 °C	250	250	250	250	
Thermal characteristics							
Thermal resistance, junction - case	R _{thJC}		0.8	0.8	0.8	0.8	°C/W

