Silicon Power Schottky Diode

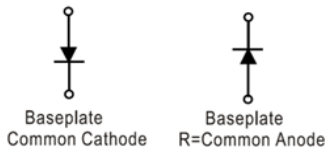
V_{RRM} = 20 V - 40 V

$I_{F(AV)}$ = 200 A

Features

- High Surge Capability
- Types from 20 V to 40 V V_{RRM}
- Not ESD Sensitive

D-67 Package





RoHS COMPLIANT

REACH COMPLIANCE

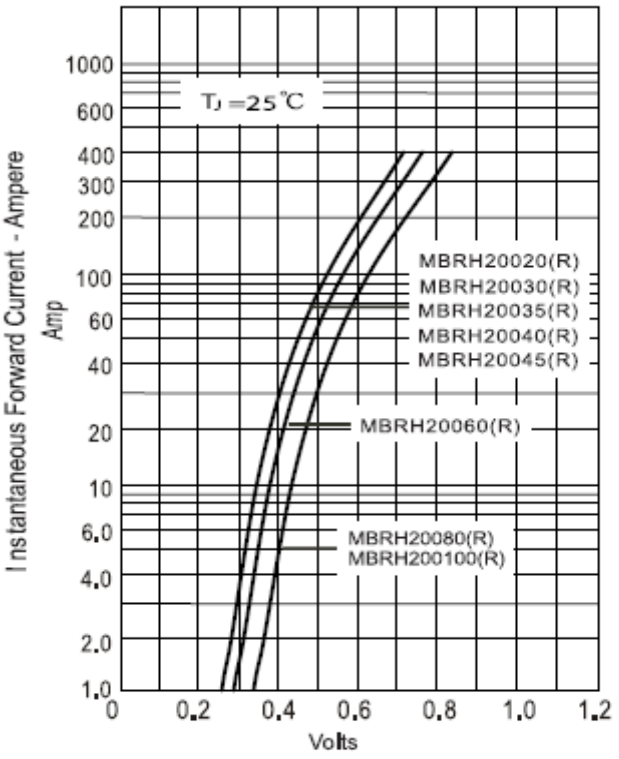
Maximum ratings, at T_j = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MBRH20020(R)	MBRH20030(R)	MBRH20035(R)	MBRH20040(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
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

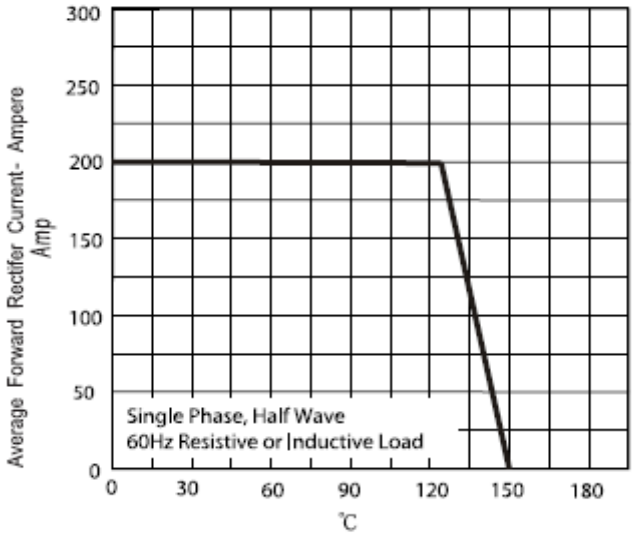
Parameter	Symbol	Conditions	MBRH20020(R)	MBRH20030(R)	MBRH20035(R)	MBRH20040(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T_C = 125 °C	200	200	200	200	A
Peak forward surge current	I_{FSM}	t_p = 8.3 ms, half sine	3000	3000	3000	3000	A
Maximum instantaneous forward voltage	V_F	I_{FM} = 200 A, T_j = 25 °C	0.70	0.70	0.70	0.70	V
Maximum instantaneous reverse current at rated DC blocking voltage	I_R	T_j = 25 °C T_j = 100 °C T_j = 150 °C	1 10 50	1 10 50	1 10 50	1 10 50	mA
Thermal characteristics							
Thermal resistance, junction-case	$R_{\Theta JC}$		0.35	0.35	0.35	0.35	°C/W

Figure .1- Typical Forward Characteristics



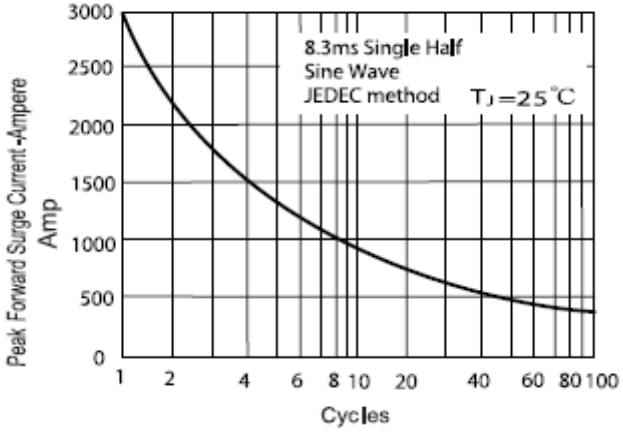
Instantaneous Forward Voltage - Volts

Figure .2- Forward Derating Curve



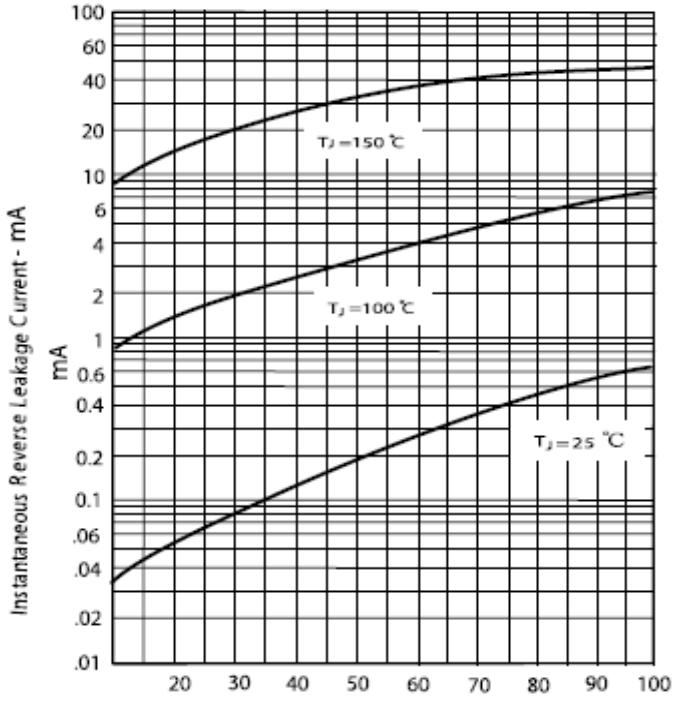
Case Temperature - ℃

Figure .3- Peak Forward Surge Current



Number Of Cycles At 60Hz - Cycles

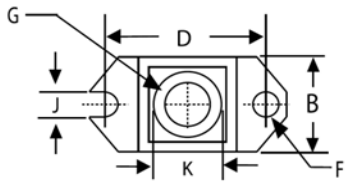
Figure .4- Typical Reverse Characteristics

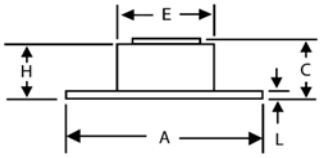


Reverse Voltage - Volts(%)

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.







DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.515	1.560	38.48	39.62	
B	.725	.775	18.42	19.69	
C	.595	.625	15.11	15.88	
D	1.182	1.192	30.02	30.28	
E	.736	.744	18.70	18.90	
F	.152	.160	3.86	4.061	Ø
G	1/4- 20 UNC				
H	.540	.580	13.72	14.73	
J	.156	.160	3.96	4.06	
K	.480	.492	12.20	12.50	Ø
L	.120	.130	3.05	3.30	