

## Silicon Power Schottky Diode

**V<sub>RRM</sub> = 20 V - 100 V**

**I<sub>F</sub> = 200 A**

### Features

- High Surge Capability
- Types up to 100 V V<sub>RRM</sub>
- Isolation Type Package

**Three Tower Package**

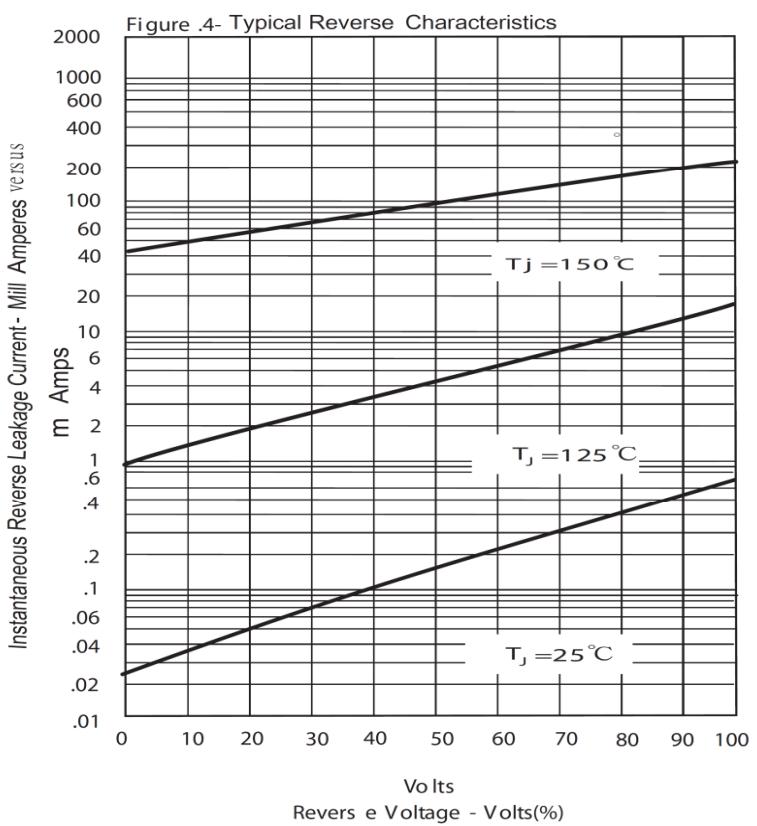
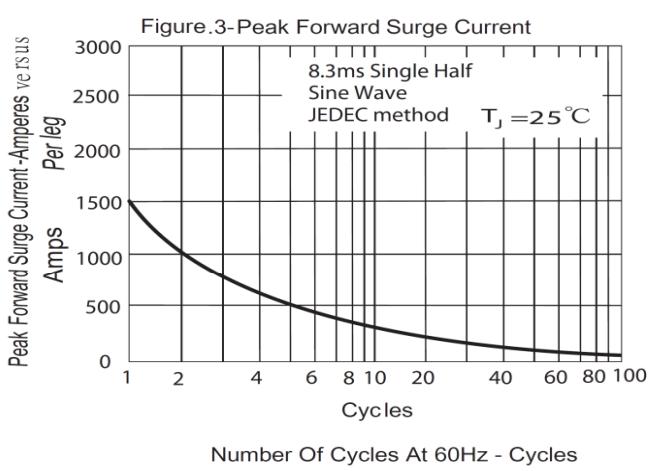
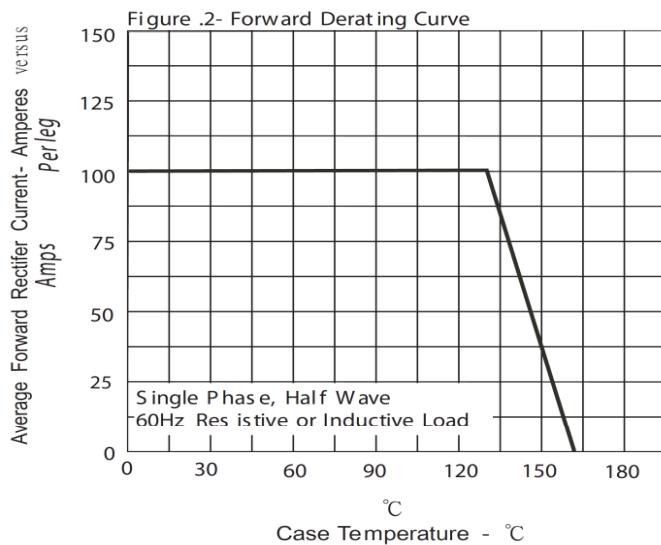
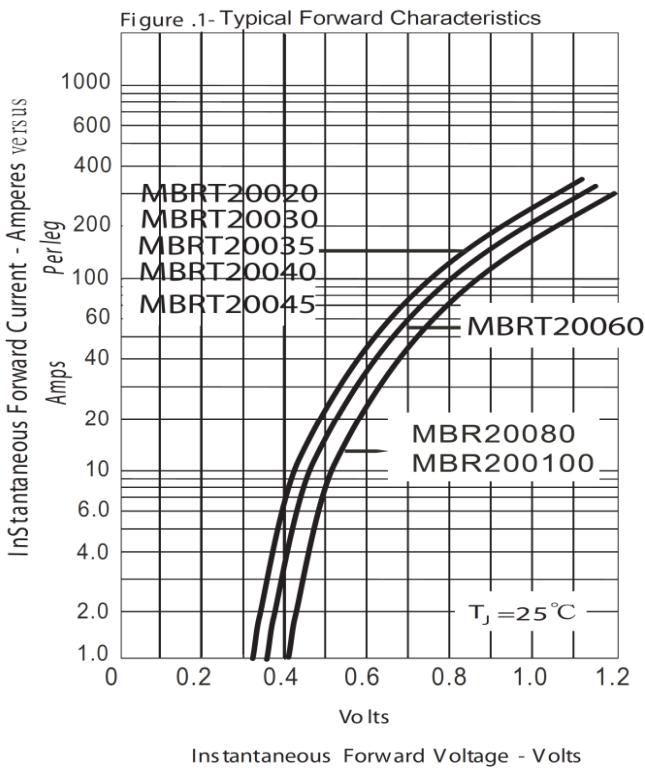


**Maximum ratings, at T<sub>j</sub> = 25 °C, unless otherwise specified ("R" devices have leads reversed)**

Parameter	Symbol	Conditions	MBRT20045 (R)	MBRT20060 (R)	MBRT20080 (R)	MBRT200100 (R)	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		45	60	80	100	V
RMS reverse voltage	V <sub>RMS</sub>		32	42	57	70	V
DC blocking voltage	V <sub>DC</sub>		45	60	80	100	V
Continuous forward current	I <sub>F</sub>	T <sub>C</sub> ≤ 125 °C	200	200	200	200	A
Surge non-repetitive forward current, Half Sine Wave	I <sub>F,SM</sub>	T <sub>C</sub> = 25 °C, t <sub>p</sub> = 8.3 ms	1500	1500	1500	1500	A
Operating temperature	T <sub>j</sub>		-55 to 175	-55 to 175	-55 to 175	-55 to 175	°C
Storage temperature	T <sub>stg</sub>		-55 to 175	-55 to 175	-55 to 175	-55 to 175	°C

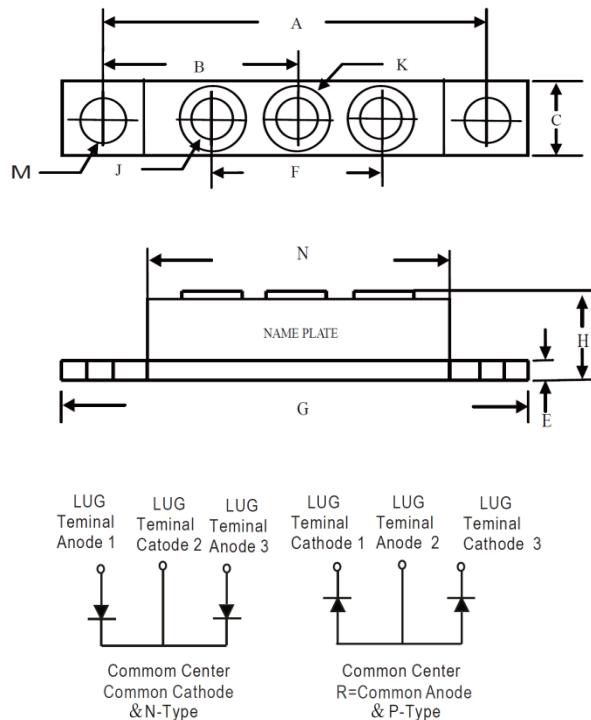
**Electrical characteristics, at T<sub>j</sub> = 25 °C, unless otherwise specified**

Parameter	Symbol	Conditions	MBRT20045 (R)	MBRT20060(R)	MBRT20080 (R)	MBRT200100 (R)	Unit
Diode forward voltage	V <sub>F</sub>	I <sub>F</sub> = 100 A, T <sub>j</sub> = 25 °C	0.75	0.8	0.88	0.88	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 20 V, T <sub>j</sub> = 25 °C	1	1	1	1	mA
		V <sub>R</sub> = 20 V, T <sub>j</sub> = 125 °C	20	20	20	20	
<b>Thermal characteristics</b>							
Thermal resistance, junction - case	R <sub>thJC</sub>		0.18	0.18	0.18	0.18	°C/W



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	3.150	NOM	80.01	NOM
B	1.565	1.585	39.75	40.26
C	.700	.800	17.78	20.32
E	.119	.132	3.02	3.35
F	1.327	REF	33.72	REF
G	3.55	3.65	90.17	92.71
H	----	.73	----	18.30
J	1/4-20 UNC FULL			
K	.472	.511	12	13
M	.275	.295	6.99	7.49
N	2.38	2.46	60.5	62.5