

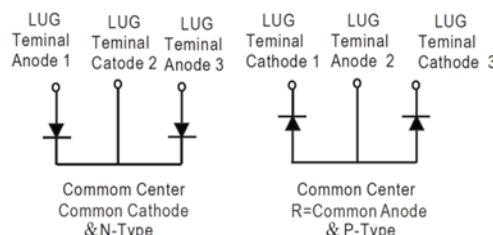
Silicon Power Schottky Diode

V_{RRM} = 20 V - 40 V
I_{F(AV)} = 200 A

Features

- High Surge Capability
- Types from 20 V to 40 V V_{RRM}
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive

Three Tower Package



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

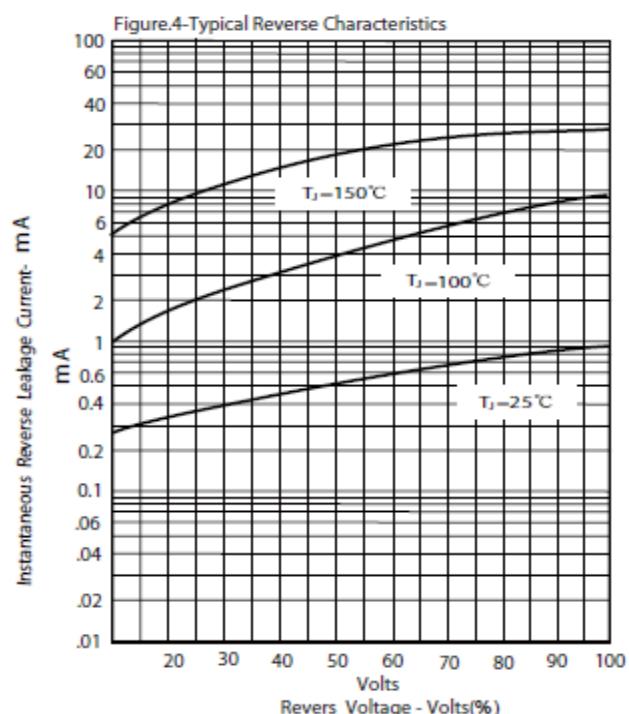
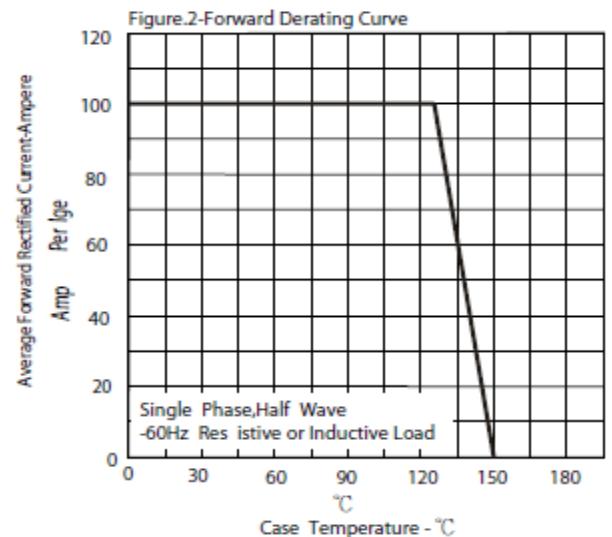
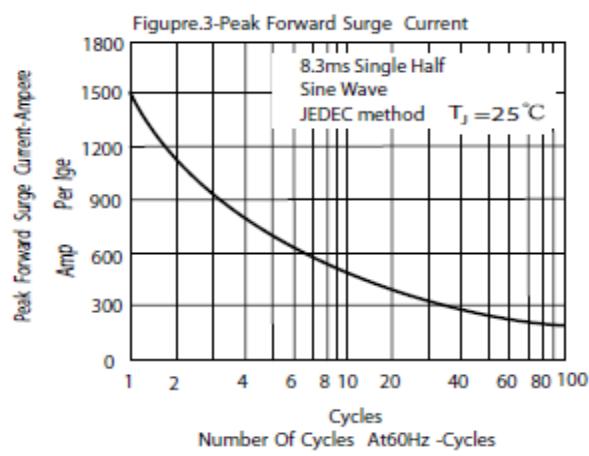
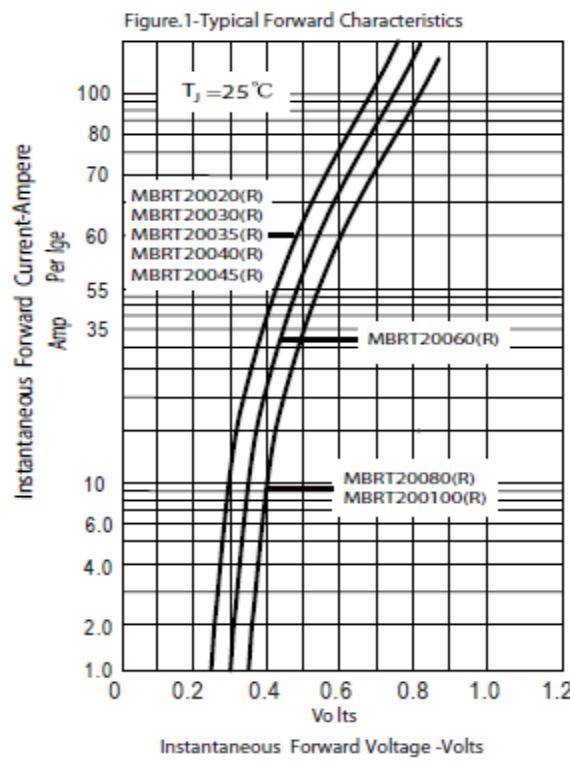
Parameter	Symbol	Conditions	MBRT20020(R)	MBRT20030(R)	MBRT20035(R)	MBRT20040(R)	Unit
Repetitive peak reverse voltage	V _{RRM}		20	30	35	40	V
RMS reverse voltage	V _{RMS}		14	21	25	28	V
DC blocking voltage	V _{DC}		20	30	35	40	V
Operating temperature	T _j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	MBRT20020(R)	MBRT20030(R)	MBRT20035(R)	MBRT20040(R)	Unit
Average forward current (per pkg)	I _{F(AV)}	T _C = 125 °C	200	200	200	200	A
Peak forward surge current (per leg)	I _{FSM}	t _p = 8.3 ms, half sine	1500	1500	1500	1500	A
Maximum instantaneous forward voltage (per leg)	V _F	I _{FM} = 100 A, T _j = 25 °C	0.70	0.70	0.70	0.70	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	I _R	T _j = 25 °C T _j = 100 °C T _j = 150 °C	1 10 30	1 10 30	1 10 30	1 10 30	mA

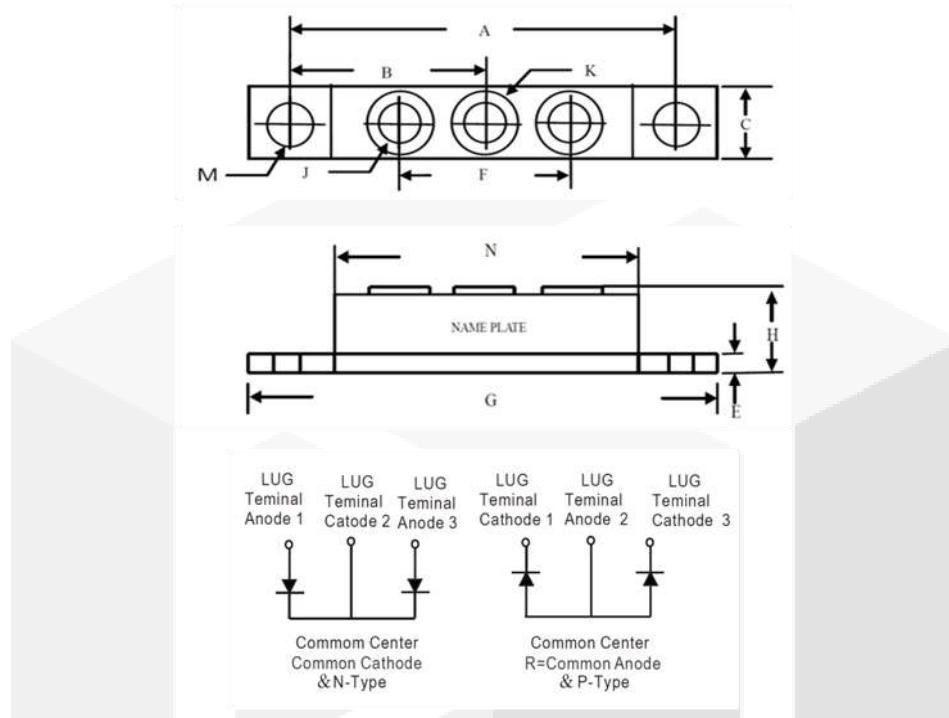
Thermal characteristics

Thermal resistance, junction-case (per leg)	R _{θJC}		0.45	0.45	0.45	0.45	°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	0.700	0.800	17.78	20.32
E	0.119	0.132	3.02	3.35
F	1.327	----	33.72	----
G	3.550	3.650	90.17	92.71
H	0.677	0.720	17.20	18.30
J	1/4 -20 UNC FULL			
K	0.472	0.511	12	13
M	0.275	0.295	6.99	7.49
N	2.380	2.460	60.5	62.5