

Silicon Power Schottky Diode

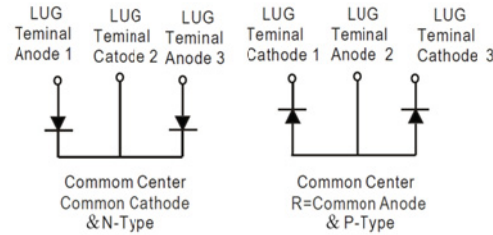
$V_{RRM} = 150\text{ V} - 200\text{ V}$

$I_{F(AV)} = 400\text{ A}$

Features

- High Surge Capability
- Types from 150 V to 200 V V_{RRM}
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive

Three Tower Package



Maximum ratings, at $T_j = 25\text{ }^{\circ}\text{C}$, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MBRT400150(R)	MBRT400200(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		150	200	V
RMS reverse voltage	V_{RMS}		106	141	V
DC blocking voltage	V_{DC}		150	200	V
Operating temperature	T_j		-55 to 150	-55 to 150	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-55 to 150	-55 to 150	$^{\circ}\text{C}$

Electrical characteristics, at $T_j = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	MBRT400150(R)	MBRT400200(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125\text{ }^{\circ}\text{C}$	400	400	A
Peak forward surge current (per leg)	I_{FSM}	$t_p = 8.3\text{ ms}$, half sine	3000	3000	A
Maximum instantaneous forward voltage (per leg)	V_F	$I_{FM} = 200\text{ A}$, $T_j = 25\text{ }^{\circ}\text{C}$	0.88	0.92	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	I_R	$T_j = 25\text{ }^{\circ}\text{C}$	1	1	mA
		$T_j = 100\text{ }^{\circ}\text{C}$	10	10	
		$T_j = 150\text{ }^{\circ}\text{C}$	50	50	

Thermal characteristics

Thermal resistance, junction-case (per leg)	$R_{\theta JC}$	0.35	0.35	$^{\circ}\text{C/W}$
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Figure.1-Typical Forward Characteristics

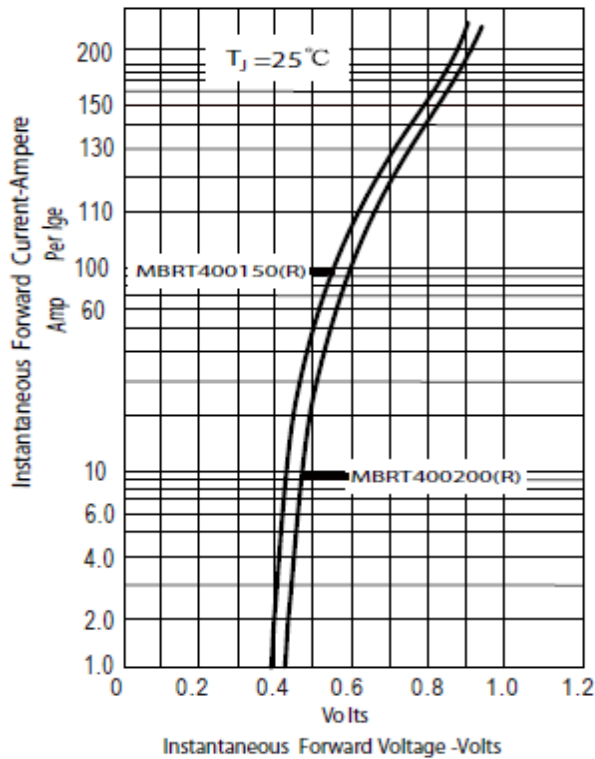


Figure.2-Forward Derating Curve

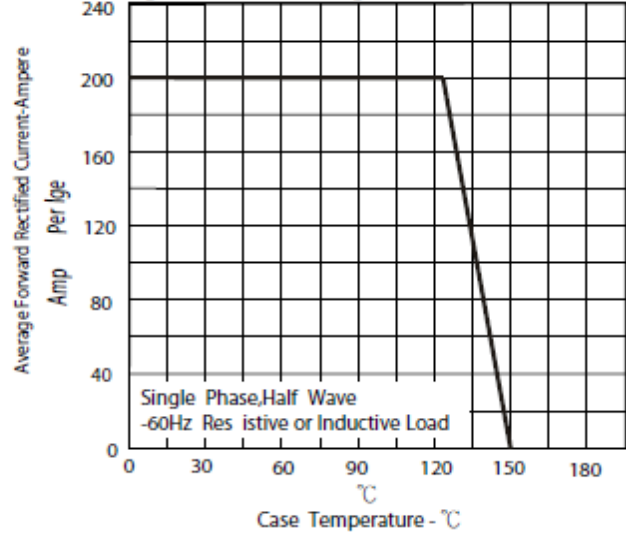


Figure.3-Peak Forward Surge Current

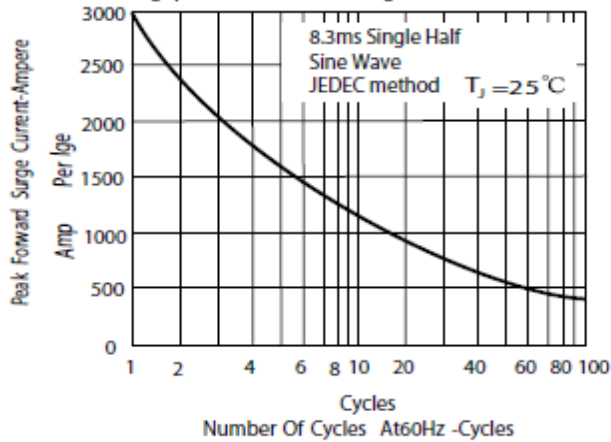
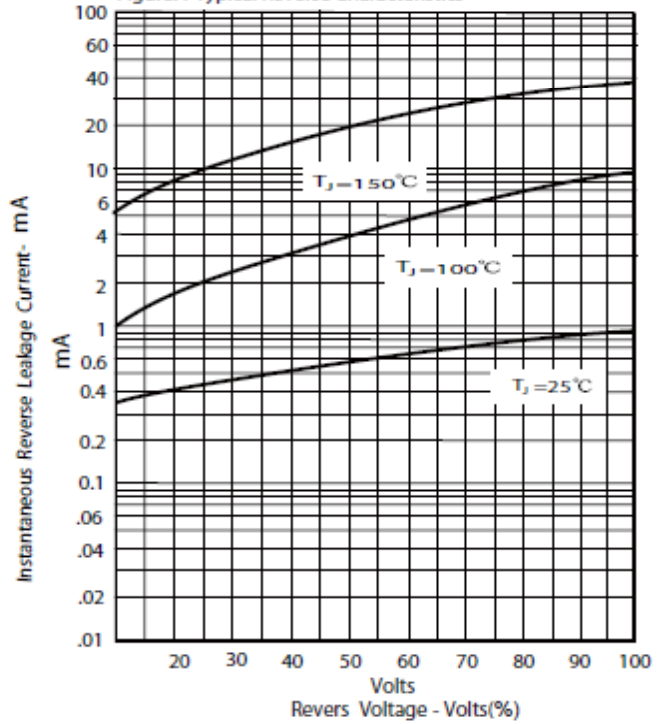
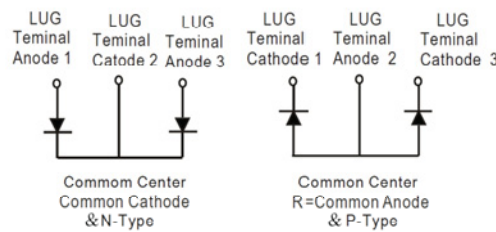
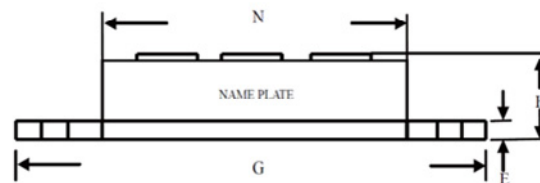
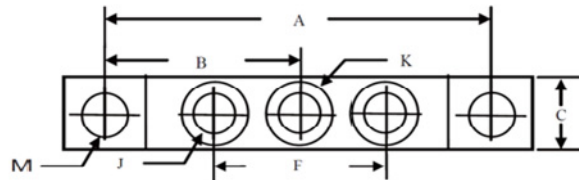


Figure.4-Typical Reverse Characteristics



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

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