

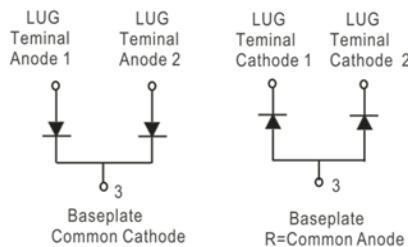
Silicon Power Schottky Diode

$V_{RRM} = 45 \text{ V - } 100 \text{ V}$
 $I_{F(AV)} = 500 \text{ A}$

Features

- High Surge Capability
- Types from 45 to 100 V V_{RRM}
- Not ESD Sensitive

Twin Tower Package



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

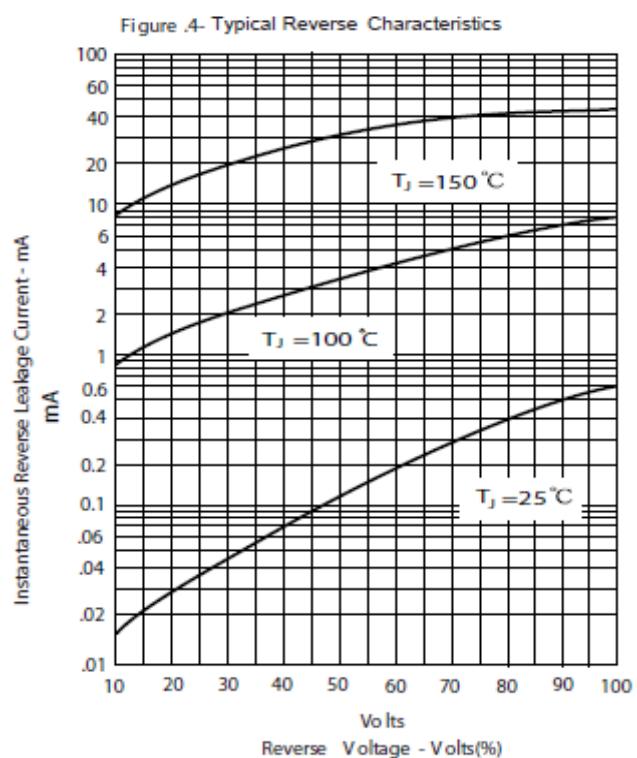
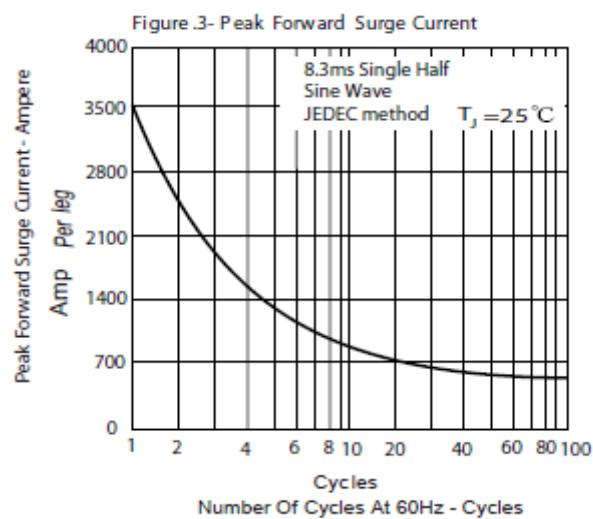
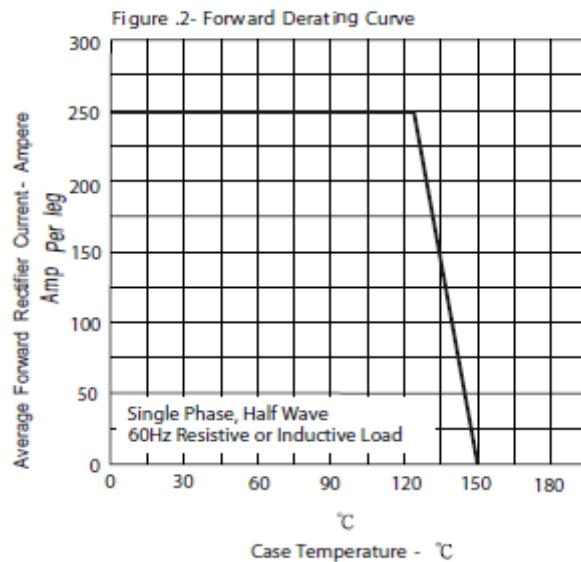
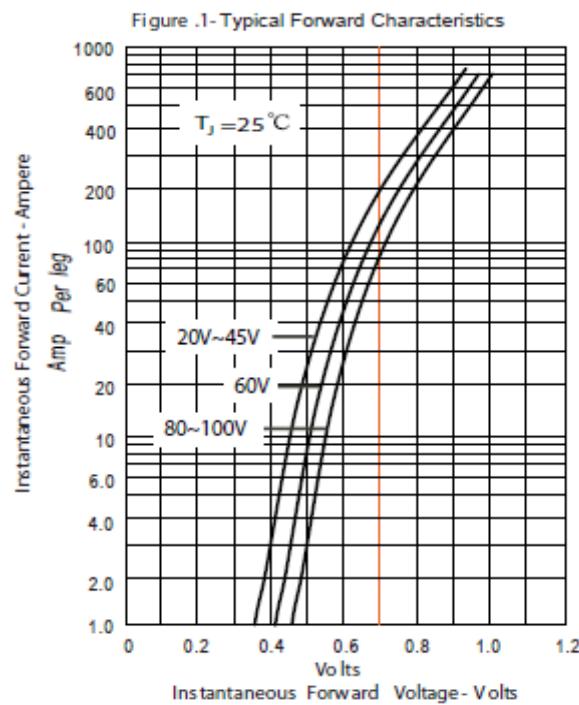
Parameter	Symbol	Conditions	MBR50045CT(R)	MBR50060CT(R)	MBR50080CT(R)	MBR500100CT(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		45	60	80	100	V
RMS reverse voltage	V_{RMS}		32	42	57	70	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	MBR50045CT(R)	MBR50060CT(R)	MBR50080CT(R)	MBR500100CT(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125^\circ\text{C}$	500	500	500	500	A
Peak forward surge current (per leg)	I_{FSM}	$t_p = 8.3 \text{ ms, half sine}$	3500	3500	3500	3500	A
Maximum forward voltage (per leg)	V_F	$I_{FM} = 250 \text{ A}, T_j = 25^\circ\text{C}$	0.75	0.78	0.84	0.84	V
Reverse current at rated DC blocking voltage (per leg)	I_R	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$ $T_j = 150^\circ\text{C}$	1 10 50	1 10 50	1 10 50	1 10 50	mA

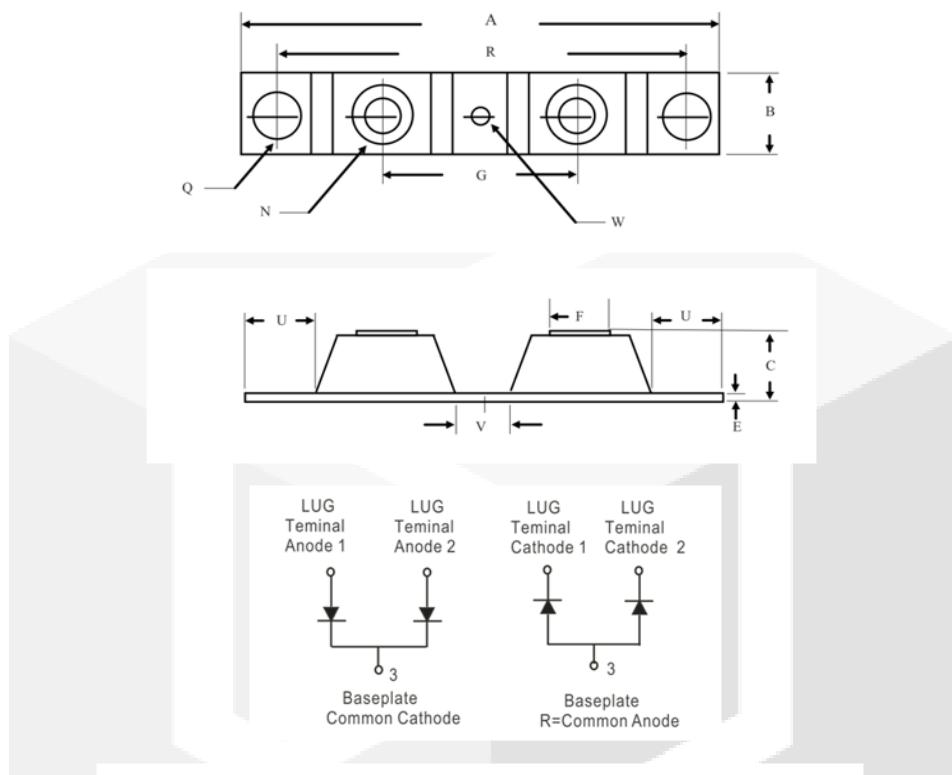
Thermal characteristics

Thermal resistance, junction-case, per leg	$R_{\theta JC}$	0.30	0.30	0.30	0.30	°C/W
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Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	----	3.630	----	92.40
B	0.700	0.800	17.78	20.32
C	----	0.650	----	16.51
E	0.130	0.141	3.30	3.60
F	0.482	0.490	12.25	12.45
G	1.368	BSC	34.75	BSC
N	1/4-20 UNC FULL			
Q	0.275	0.290	6.99	7.37
R	3.150	BSC	80.01	BSC
U	0.600	----	15.24	----
V	0.312	0.370	7.92	9.40
W	0.180	0.195	4.57	4.95

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