

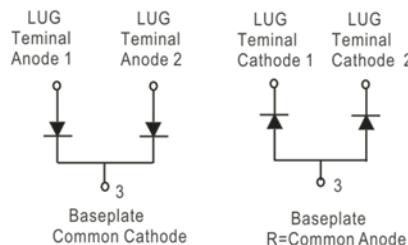
# Silicon Power Schottky Diode

**V<sub>RRM</sub> = 45 V - 100 V**  
**I<sub>F(AV)</sub> = 120 A**

## Features

- High Surge Capability
- Types from 45 V to 100 V V<sub>RRM</sub>
- Not ESD Sensitive

## Twin Tower Package



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

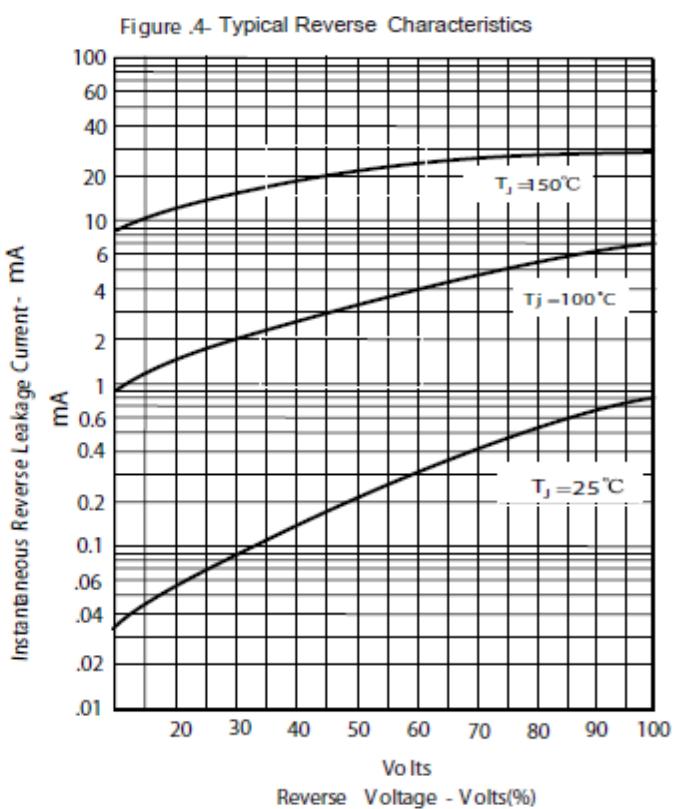
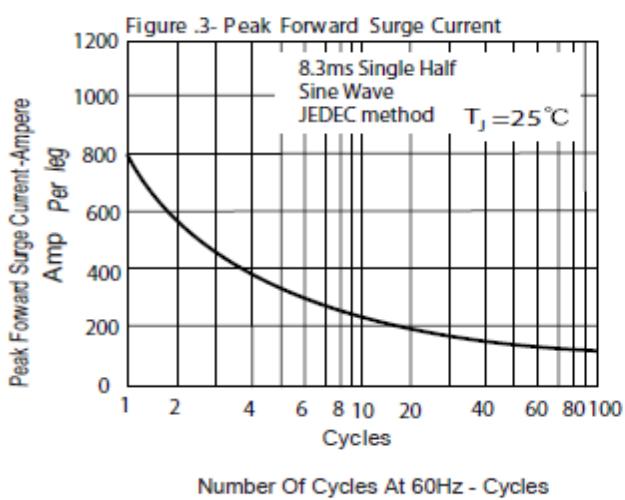
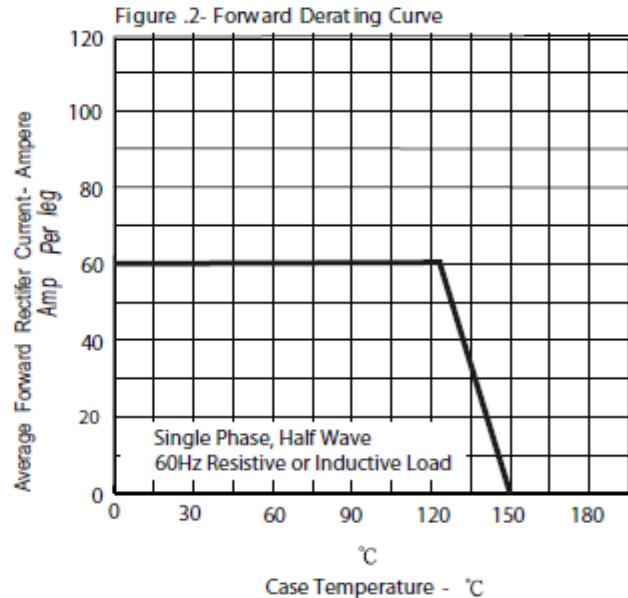
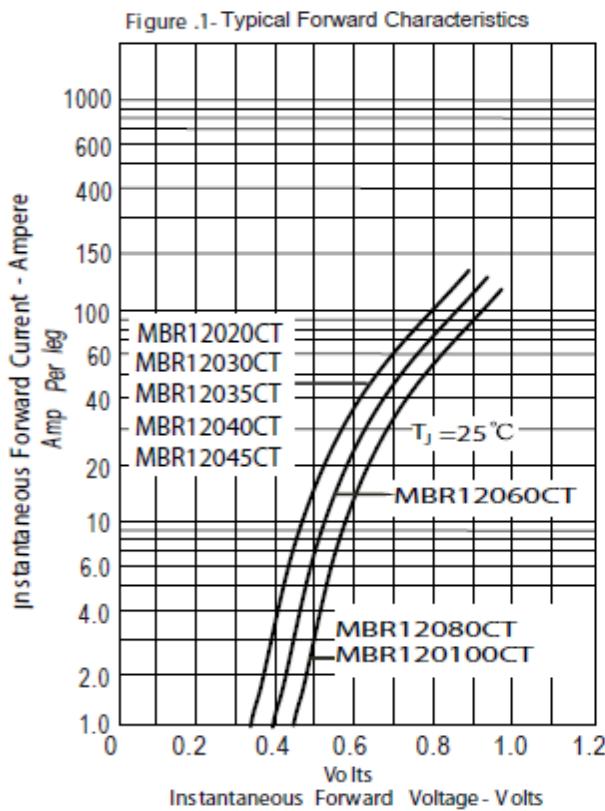
Parameter	Symbol	Conditions	MBR12045CT(R)	MBR12060CT(R)	MBR12080CT(R)	MBR120100CT(R)	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		45	60	80	100	V
RMS reverse voltage	V <sub>RMS</sub>		32	42	57	70	V
DC blocking voltage	V <sub>DC</sub>		45	60	80	100	V
Operating temperature	T <sub>j</sub>	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T <sub>stg</sub>	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	MBR12045CT(R)	MBR12060CT(R)	MBR12080CT(R)	MBR120100CT(R)	Unit
Average forward current (per pkg)	I <sub>F(AV)</sub>	T <sub>C</sub> = 125 °C	120	120	120	120	A
Peak forward surge current (per leg)	I <sub>FSM</sub>	t <sub>p</sub> = 8.3 ms, half sine	800	800	800	800	A
Maximum forward voltage (per leg)	V <sub>F</sub>	I <sub>FM</sub> = 60 A, T <sub>j</sub> = 25 °C	0.7	0.75	0.84	0.84	V
Reverse current at rated DC blocking voltage (per leg)	I <sub>R</sub>	T <sub>j</sub> = 25 °C T <sub>j</sub> = 100 °C T <sub>j</sub> = 150 °C	1 10 30	1 10 30	1 10 30	1 10 30	mA

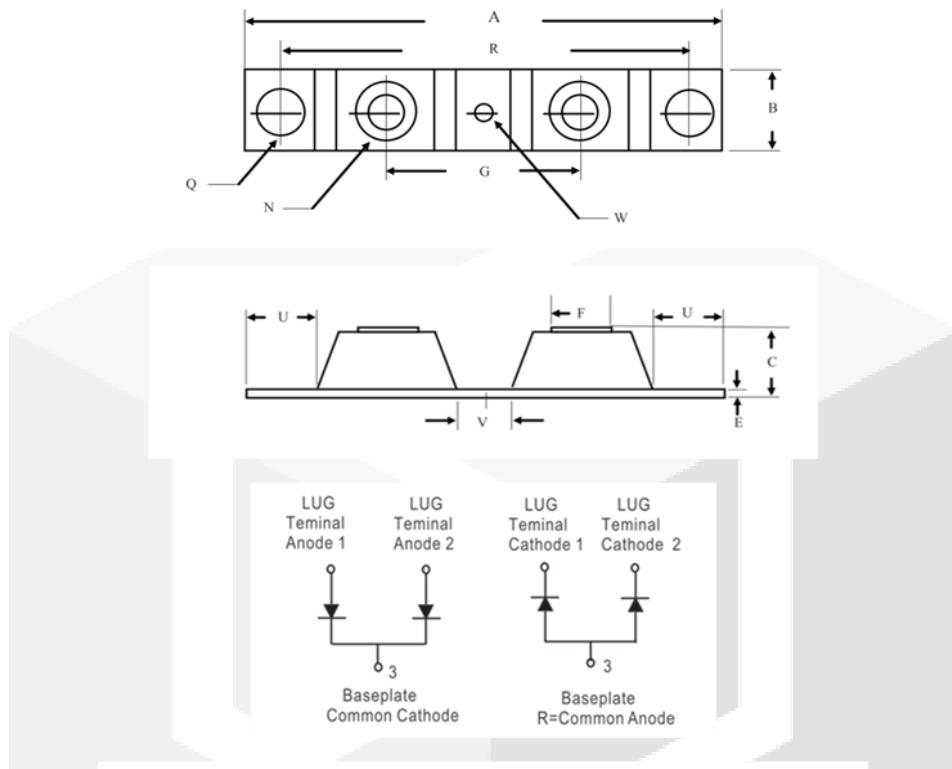
## Thermal characteristics

Thermal resistance, junction-case, per leg	R <sub>θJC</sub>		0.80	0.80	0.80	0.80	°C/W
--	------------------	--	------	------	------	------	------



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	-----	3.630	-----	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

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for Discrete Semiconductor Modules category:***

***Click to view products by GeneSiC Semiconductor manufacturer:***

Other Similar products are found below :

[M252511FV](#) [DD260N12K-A](#) [DD380N16A](#) [DD89N1600K-A](#) [APT2X21DC60J](#) [APT58M80J](#) [B522F-2-YEC](#) [MSTC90-16](#) [25.163.0653.1](#)  
[25.163.2453.0](#) [25.163.4253.0](#) [25.190.2053.0](#) [25.194.3453.0](#) [25.320.4853.1](#) [25.320.5253.1](#) [25.326.3253.1](#) [25.326.3553.1](#) [25.330.1653.1](#)  
[25.330.4753.1](#) [25.330.5253.1](#) [25.334.3253.1](#) [25.334.3353.1](#) [25.350.2053.0](#) [25.352.4753.1](#) [25.522.3253.0](#) [T483C](#) [T484C](#) [T485F](#) [T485H](#)  
[T512F-YEB](#) [T513F](#) [T514F](#) [T554](#) [T612FSE](#) [25.161.3453.0](#) [25.179.2253.0](#) [25.194.3253.0](#) [25.325.1253.1](#) [25.326.4253.1](#) [25.330.0953.1](#)  
[25.332.4353.1](#) [25.350.1653.0](#) [25.350.2453.0](#) [25.352.1453.0](#) [25.352.1653.0](#) [25.352.2453.0](#) [25.352.5453.1](#) [25.522.3353.0](#) [25.602.4053.0](#)  
[25.640.5053.0](#)