

PSpice Model Rectifier Diode Soild State Devices, Inc. SRH30UFS

Model Information

Model A macro model

Call Name MDC_SRH30UFS_PS

Pin Assign 1:A 2:C

File List Model Library MDC_SRH30UFS_PS.lib

Model Report MDC_SRH30UFS_PS.pdf

Verified Simulator Version

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version N.A

Product name SRH30UFS

Company name
Soild State Devices, Inc.

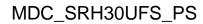
[Characteristics listed]

Characteristics IfVf[temp],IrVr,CjVr,Trr

Simulation Condition

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C





Model Functions Table

Diode

O: Implemented

×: Not Implemented

—: Not applicable

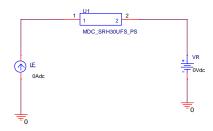
RANK=1

Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	0
Rectification characteristics(Bridge)	1	-
Surge voltage-Transient	2	_

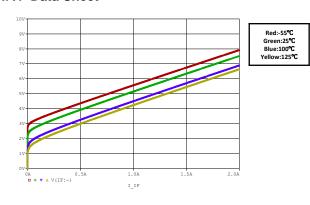


Simulation results are following. Explanatory notes — : simulated

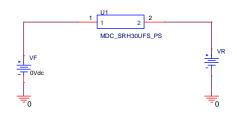
IfVf Testbench



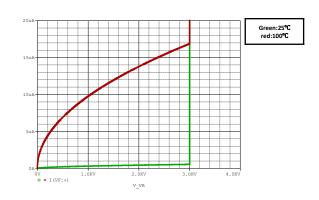
IfVf Data Sheet



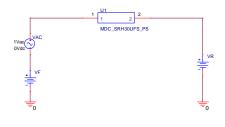
IrVr Testbench



IrVr Data sheet

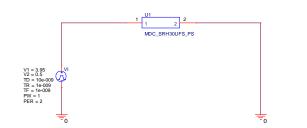


CjVr Testbench

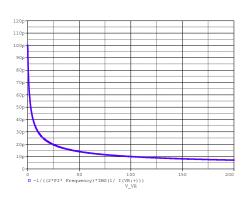


Trr Testbench

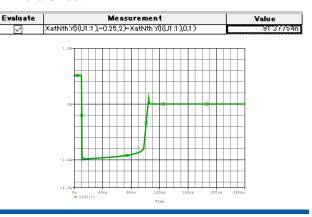
Characteristic	Symbol	MIN.	MAX.	UNIT
Reverse Recovery Time	trr	,	90	ns



CjVr Data Sheet



Trr Data Sheet





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