

PSpice Model

Rectifier Diode

LITE-ON

1N4004



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_1N4004_PS
Pin Assign 1:A 2:C
File List Model Library MDC_1N4004_PS01.lib
 Model Report MDC_1N4004_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version REV. 9, MAY-2015
- Product name 1N4004
- Company name Lite-On Semiconductor Corp.
- Characteristics IfVf[Temp],CjVr,Trr

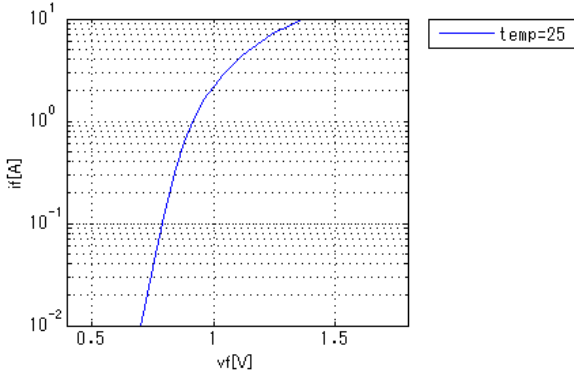
Simulation Range

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

Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	14	V
Temperature	-55	to	150	deg C

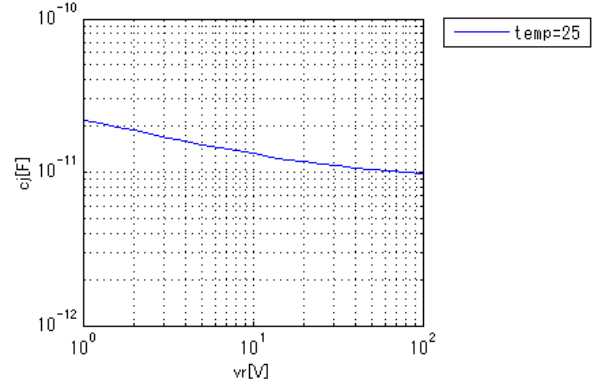
Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

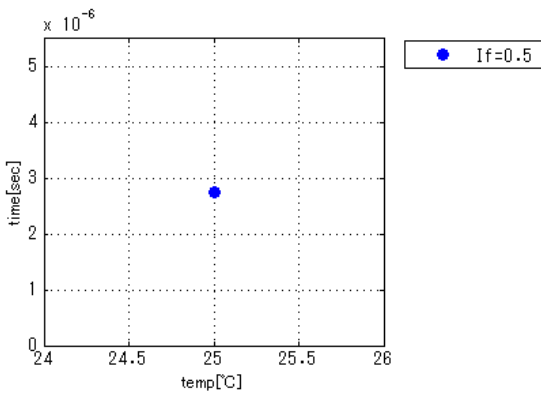


CjVr

Freq. = 1MHz



Trr



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