

PSpice Model

Rectifier Diode

LITE-ON

1N4005G



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_1N4005G_PS
Pin Assign 1:A 2:C
File List Model Library MDC_1N4005G_PS01.lib
 Model Report MDC_1N4005G_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. 6, Sep-2012
- Product name 1N4005G
- Company name Lite-On Semiconductor Corp.
- Characteristics CjVr,IfVf[Temp],IrVr[Temp]

Simulation Range

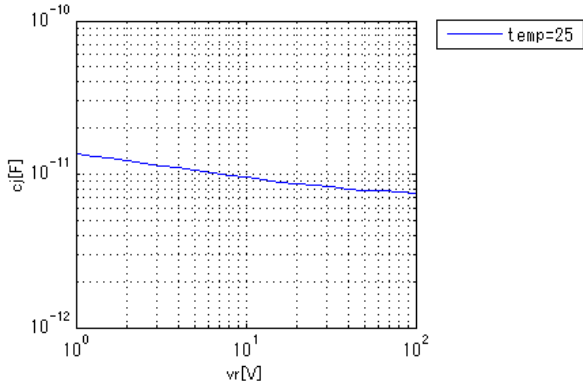
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	16	V
Temperature	-55	to	150	deg C

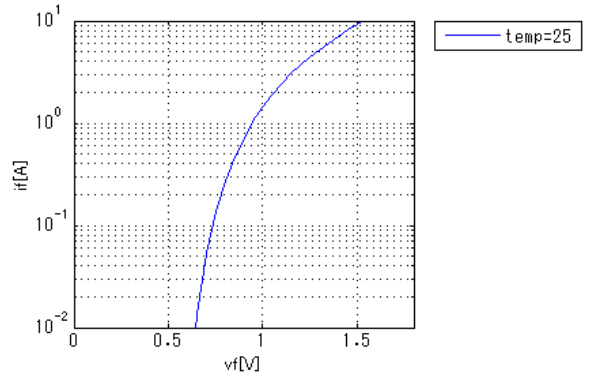
Simulation results are following.
 Explanatory notes — : simulated

CjVr

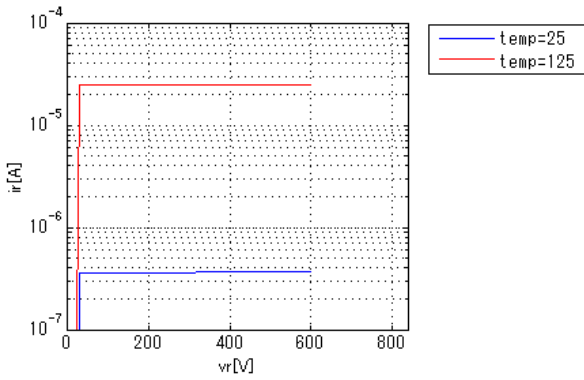
Freq. = 1MHz



IfVf[Temp]



IrVr[Temp]



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