

PSpice Model

Switching Diode

TOSHIBA

1SS301



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_1SS301_PS
Pin Assign 1:A 2:C
File List Model Library MDC_1SS301_PS01.lib
 Model Report MDC_1SS301_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 2015-01-09
- Product name 1SS301
- Company name Toshiba Corporation
- Characteristics IfVf[Temp],IrVr[Temp],CjVr

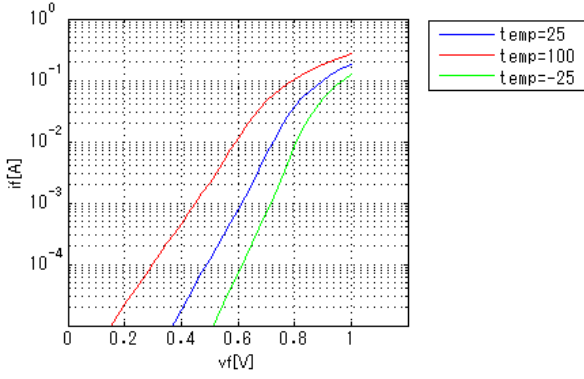
Simulation Range

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

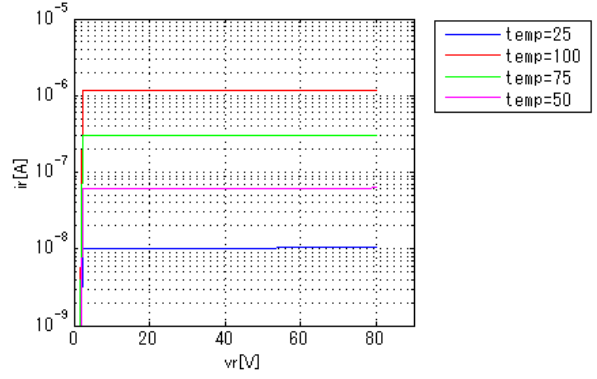
| Item | Range | | | Unit |
|-----------------|-------|----|------|-------|
| | Min. | | Max. | |
| Forward Voltage | 0 | to | 10 | V |
| Reverse Voltage | 0 | to | 160 | V |
| Temperature | -55 | to | 125 | deg C |

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

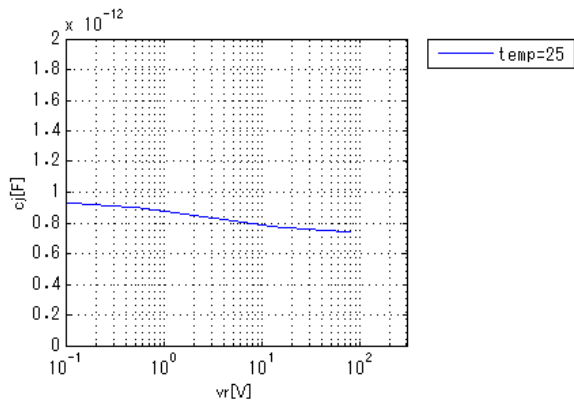


IrVr[Temp]



CjVr

Freq. = 1MHz



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