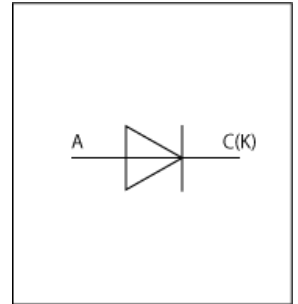


PSpice Model

Switching Diode

ROHM

1SS400SMFHT2R



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_1SS400SMFHT2R_PS
Pin Assign 1:C 2:A
File List Model Library MDC_1SS400SMFHT2R_PS01.lib
 Model Report MDC_1SS400SMFHT2R_PS.pdf (this file)
Verified Simulator Version PSpice version 17.2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2016/03/17_Rev.002
- Product name 1SS400SMFHT2R
- Company name ROHM Co., Ltd.
- Characteristics IfVf[Temp],IrVr[Temp],CjVr,TrrTrrWaveform,SurgeWaveform

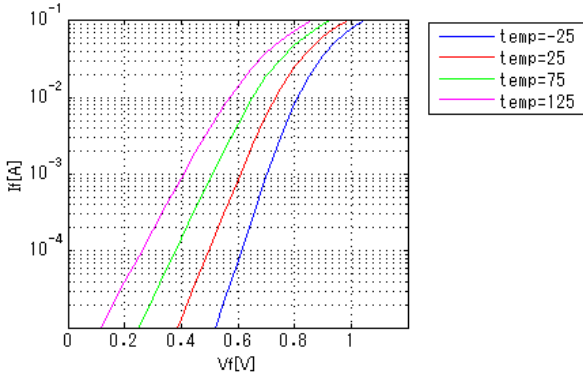
Simulation Range

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

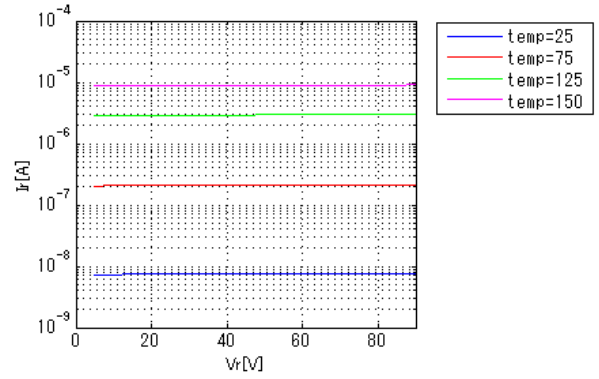
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	11	V
Reverse Voltage	0	to	160	V
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

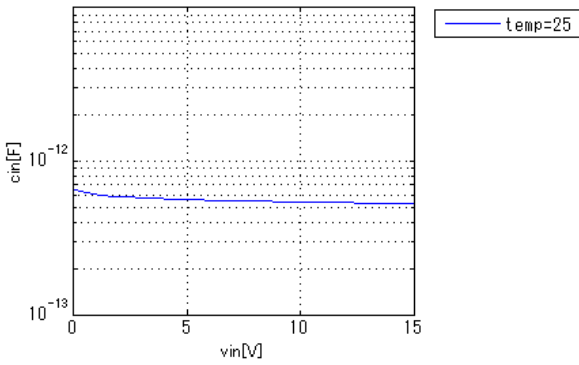


IrVr[Temp]

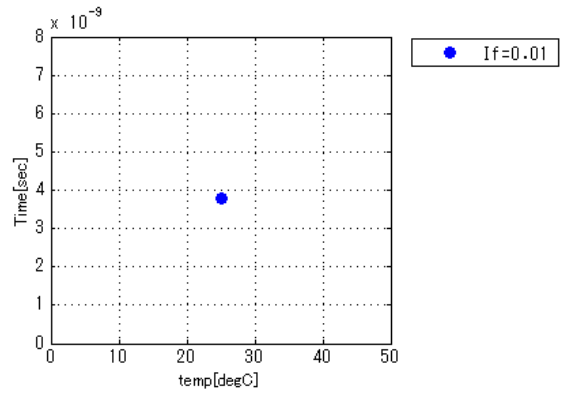


CjVr

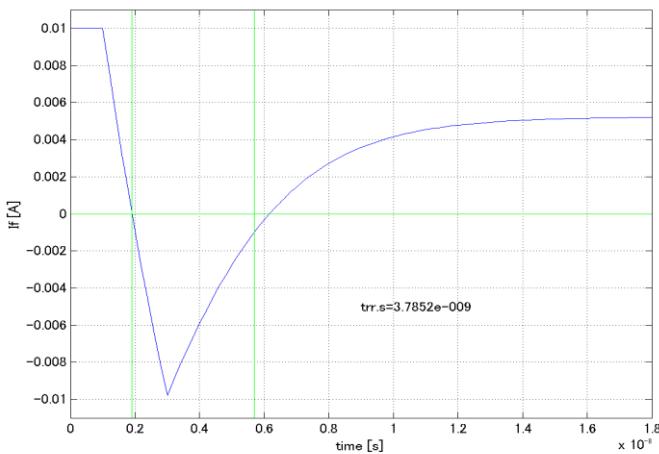
Freq. = 1MHz



Trr

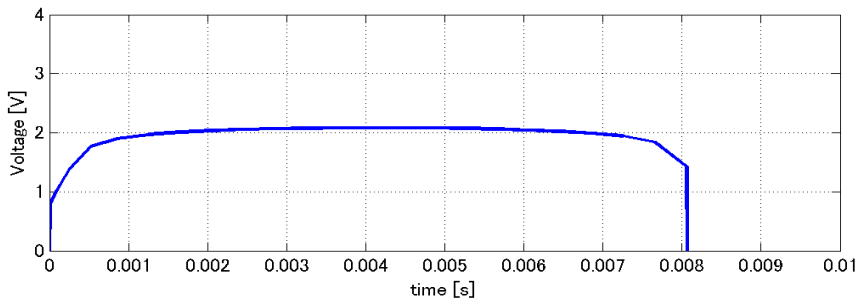
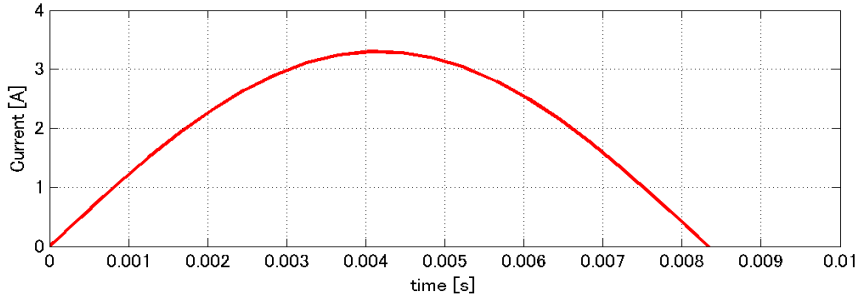


TrrWaveform



Simulation results are following.
Explanatory notes — : simulated

SurgeWaveform



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