

PSpice Model

Rectifier Diode

LITE-ON

S1KT



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_S1KT_PS
Pin Assign 1:A 2:C
File List Model Library MDC_S1KT_PS01.lib
 Model Report MDC_S1KT_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. 14, Apr.-2017
- Product name S1KT
- Company name Lite-On Semiconductor Corp.
- Characteristics IfVf[Temp],IrrVr[Temp],Trr

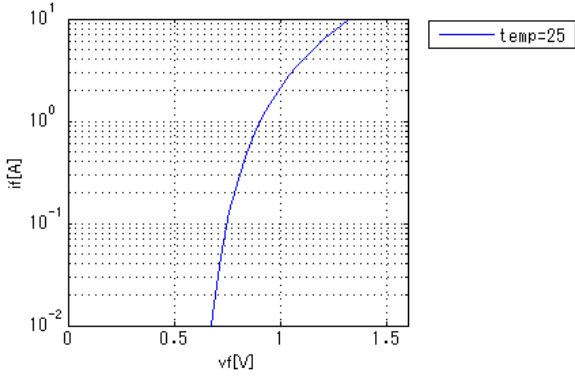
Simulation Range

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

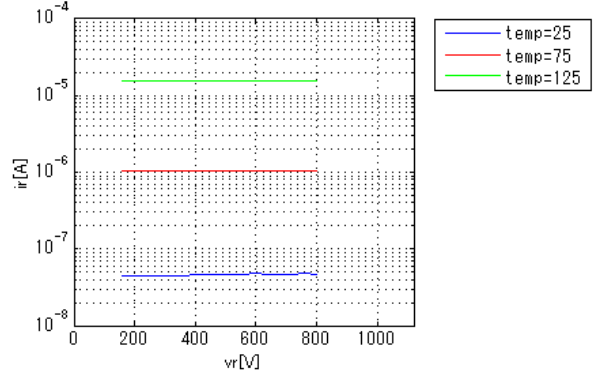
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	14	V
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

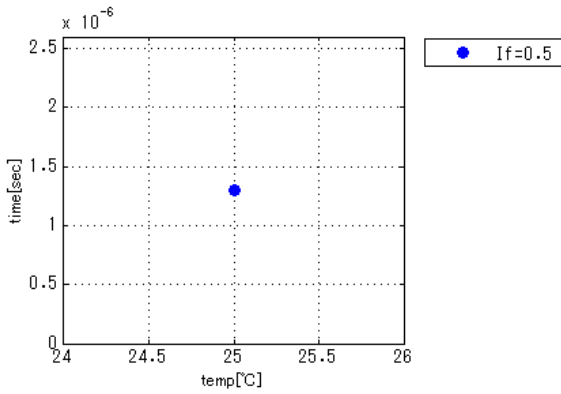
IfVf[Temp]



IrVr[Temp]



Trr



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