

LTspice Model

Rectifier Diode

VISHAY INTERTECH

S1MHE3



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_S1MHE3_LT
Pin Assign 1:A 2:C
File List Model Library MDC_S1MHE3_LT01.lib
 Model Report MDC_S1MHE3_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 21-Feb-2020
- Product name S1MHE3
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],IrVr[Temp],CjVr,Trr

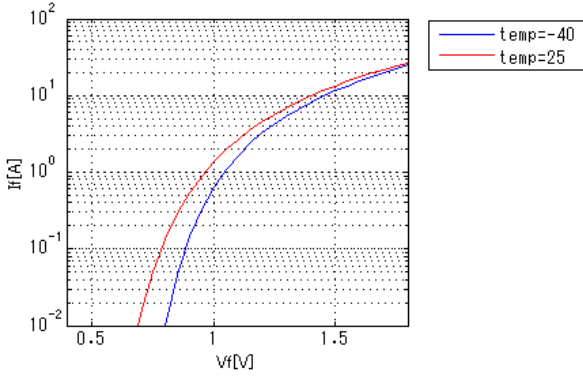
Simulation Range

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

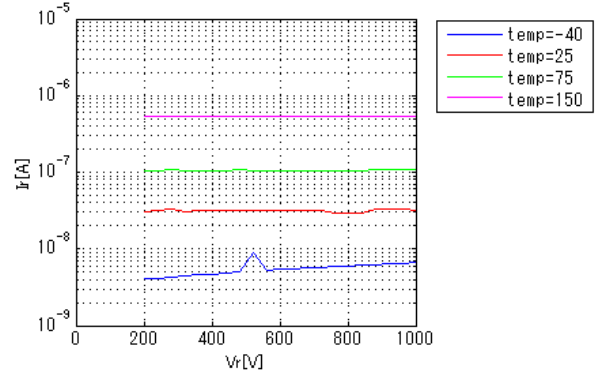
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	18	V
Reverse Voltage	0	to	2,000	V
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

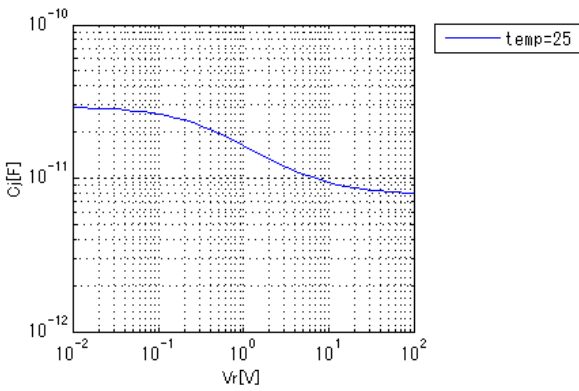


IrVr[Temp]

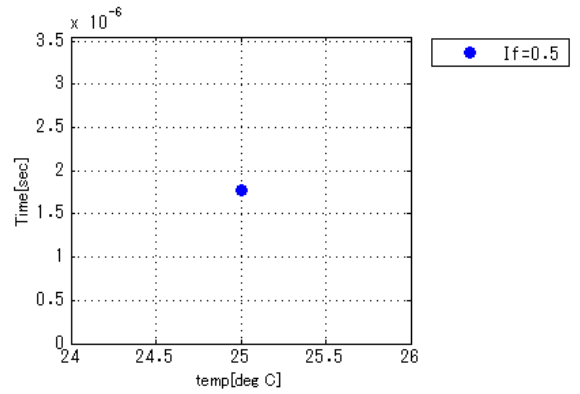


CjVr

Freq. = 1MHz



Trr



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