

LTspice Model Schottky Diode NIEC EC10QS10



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_EC10QS10_LT
Pin Assign 1:A 2:C
File List Model Library MDC_EC10QS10_LT01.lib
 Model Report MDC_EC10QS10_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 N/A
- Product name EC10QS10
- Company name Nihon Inter Electronics Corporation
- Characteristics IfVf[Temp],CjVr,IrVr[Temp]

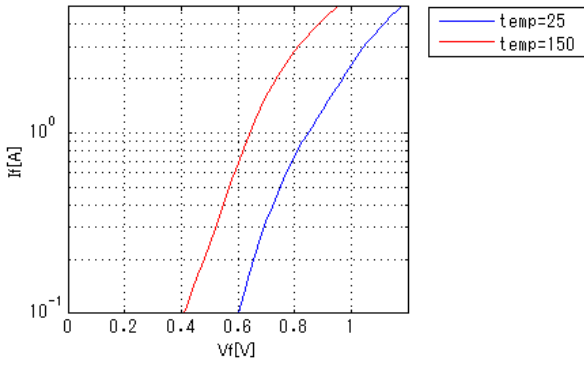
Simulation Range

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 | 12 | V |
| Reverse Voltage | 0 | to | 200 | V |
| Temperature | -40 | to | 150 | deg C |

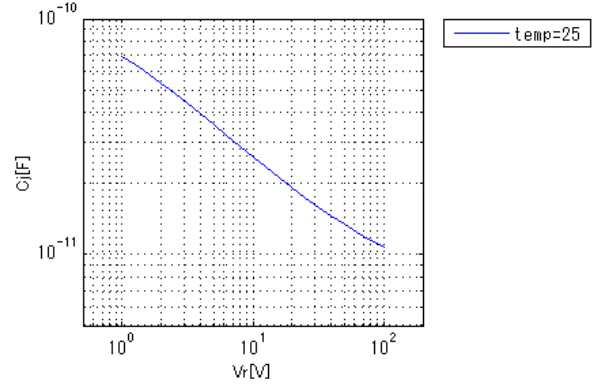
Simulation results are following.
 Explanatory notes — : simulated

IfVr[Temp]

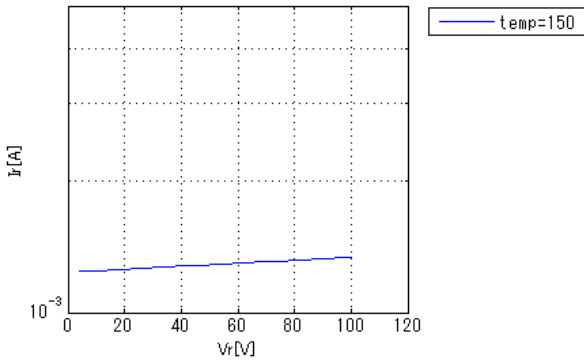


CjVr

Freq. = 1MHz



IrVr[Temp]



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