

PSpice Model

Schottky Diode

NIEC

UCQS20A045



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_UCQS20A045_PS
Pin Assign 1:A 2:C
File List Model Library MDC_UCQS20A045_PS01.lib
 Model Report MDC_UCQS20A045_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 2013.10.2
- Product name UCQS20A045
- Company name Nihon Inter Electronics Corporation
- Characteristics IfVf[Temp],CjVr,IrVr[Temp]

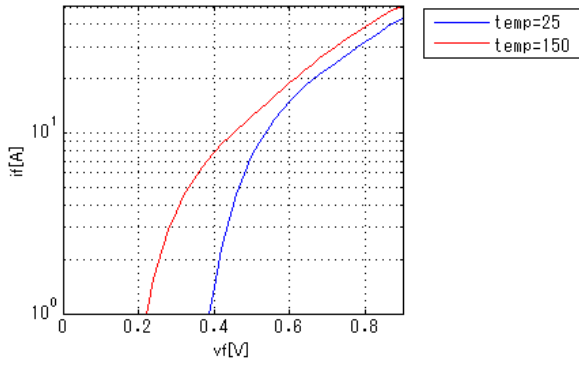
Simulation Range

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	9	V
Reverse Voltage	0	to	90	V
Temperature	-40	to	150	deg C

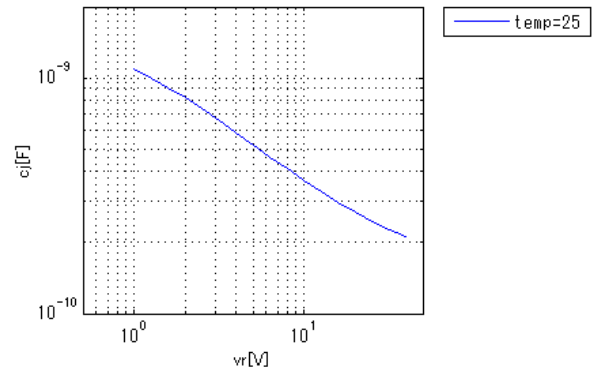
Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

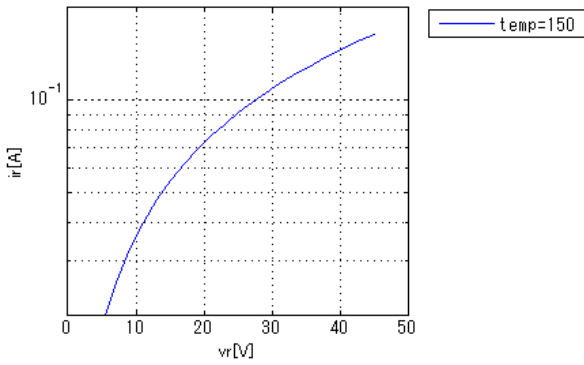


CjVr

Freq. = 1MHz



IrVr[Temp]



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