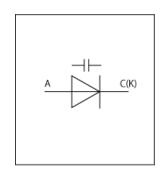


LTspice Model Variable Capacitance Diode SANYO SVC321A



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC SVC321A LT

Pin Assign 1:A 2:C

File List Model Library MDC_SVC321A_LT02.lib

Model Report MDC_SVC321A_LT.pdf (this file)

Verified Simulator Version

Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version UnknownProduct name SVC321A

Company name SANYO Electric Co., Ltd.

Characteristics CjVr,QfactorVr[Freq],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.	
Reverse Voltage	0	to	16	V
Temperature	-55	to	100	deg C



Model Functions Table

Diode

O: Implemented

×: Not Implemented

—: Not applicable

RANK=1

	IVAINIT-1	
Functions	RANK	Implemented
IF-VF(Temp)	1	
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	-
Zz-Iz	1	_
Rectification characteristics(Bridge)	1	_
Surge voltage-Transient	1	_
Qfactor	1	0

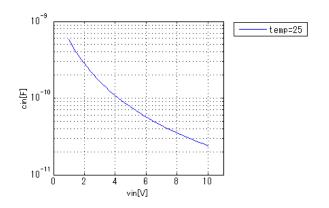


Simulation results are following.

Explanatory notes — : simulated

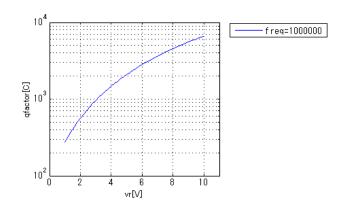
CjVr

Freq = 1000000Hz

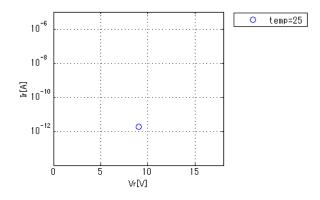


QfactorVr[Freq]

Temp = 25degC



IrVr[Temp]





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