

PSpice Model Variable Capacitance Diode SANYO SVC321C

Model Information

 Model
 A macro model based on general SPICE diode model

 Call Name
 MDC_SVC321C_PS

 Pin Assign
 1:A 2:C

 File List
 Model Library
 MDC_SVC321C_PS02.lib

 Model Report
 MDC_SVC321C_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 17.2

References

The information which was used for modeling is as follow:

[Data Sheet]

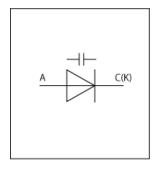
Date/Version
Product name
Company name
Characteristics

Unknown SVC321C SANYO Electric Co., Ltd. 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





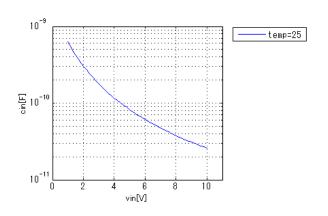
Diode Model Functions Table		O : Implemented × : Not Implemented — : Not applicable
	RANK=1	
Functions	RANK	Implemented
IF-VF(Temp)	1	—
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	1	—
Qfactor	1	0



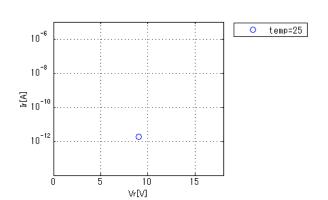
Simulation results are following. Explanatory notes — : simulated

CjVr



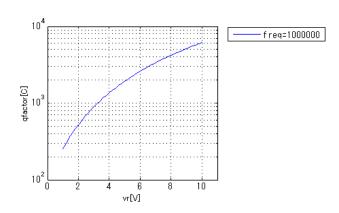


IrVr[Temp]



QfactorVr[Freq]







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