

PSpice Model High-speed switching diodes Nexperia BAV99W

Model Information

Model A macro model
Call Name MDC_BAV99W_PS

Pin Assign 1:anode(diode1) 2:cathode(diode2) 3:cathode(diode1),anode(diode2)

File List Model Library MDC_BAV99W_PS01lib

Model Report MDC_BAV99W_PS.pdf(this file)

Verified Simulator Version PSpice 17.2

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev.8Product name BAV99WCompany name Nexperia

[Characteristics listed]

Characteristics IF-VF,IR-VR,Cd-VR,trr

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C





O: Implemented

×: Not Implemented
—: Not applicable

Model Functions Table

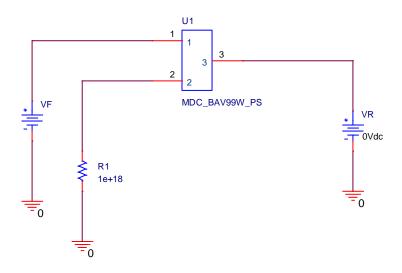
RANK=1

Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Cd-VR	1	0
trr	1	0



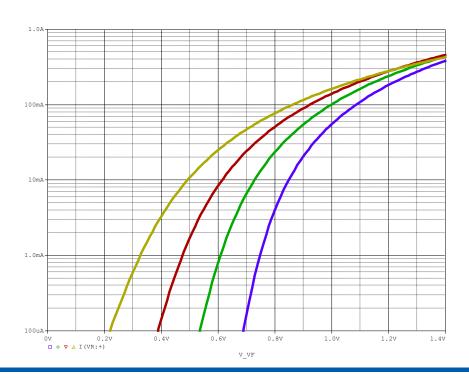
IF-VF (Temp) Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes — : simulated

IF-VF (Temp)

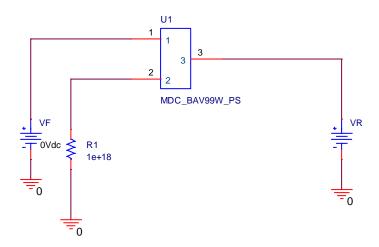


黄:150℃ 赤:85℃ 緑:25℃ 青:-40℃



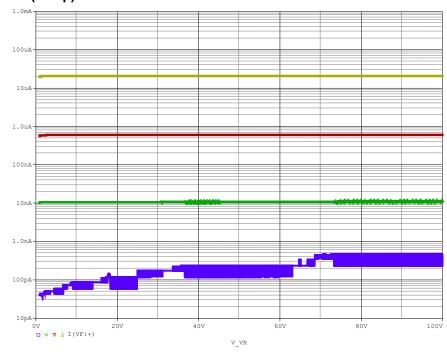
IR-VR (Temp) Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes — : simulated

IR-VR (Temp)

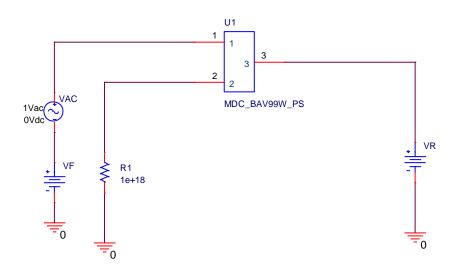


黄:150℃ 赤:85℃ 緑:25℃ 青:-40℃



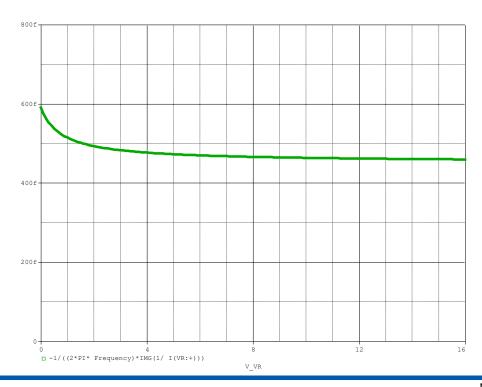
Cd-VR Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes — : simulated

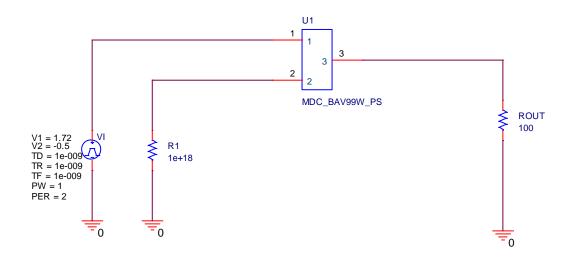
Cd-VR





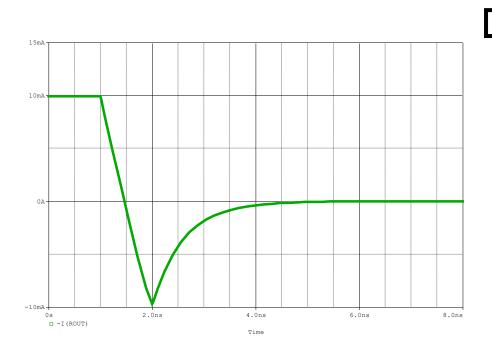
trr Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes — : simulated

trr



Trr:1.93nsec



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