

PSpice Model

Switching Diode

ROHM

DAN202FMFH

Model Information

Model A macro model
Call Name MDC_DAN202FMFH_PS
Pin Assign 1:Anode(D1),2:Anode(D2),3:Cathode(D1,D2)
File List Model Library MDC_DAN202FMFH_PS.lib
Model Report MDC_DAN202FMFH_PS.pdf(this file)
Verified Simulator Version PSpice v17.2

Note

References

The information which was used for modeling is as follow:

[Data Sheet]
●Date/Version 2020/11/05(Rev.003)
●Product name DAN202FMFH
●Company name ROHM

[Characteristics listed]
●Characteristics IF-VF(Temp), IR-VR(Temp), Capacitance, Reverse recovery characteristics

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

Diode

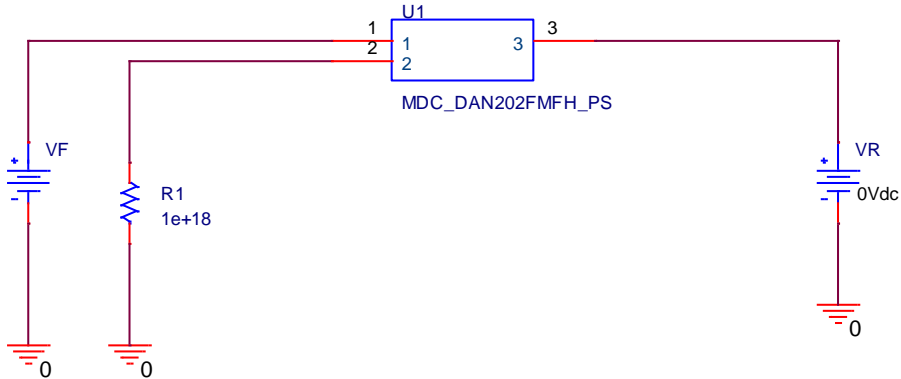
○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table

RANK=1

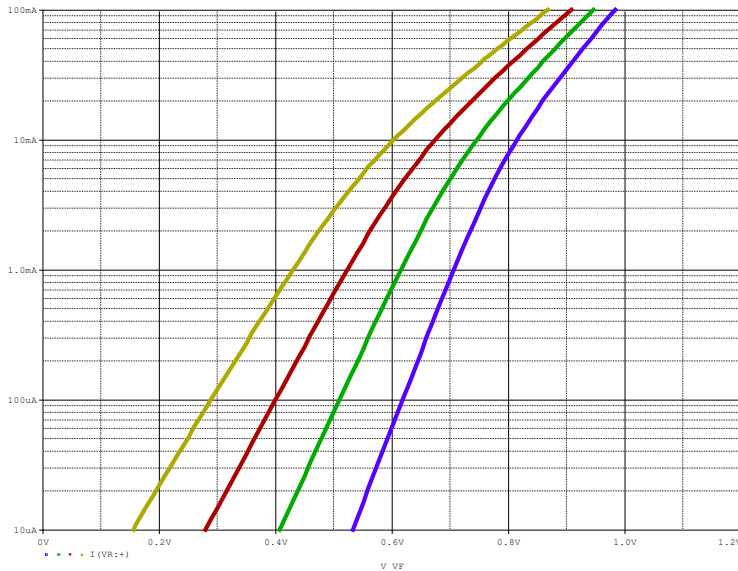
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	○
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	2	—

IF-VF(Temp) Testbench
 Referred to Data Sheet



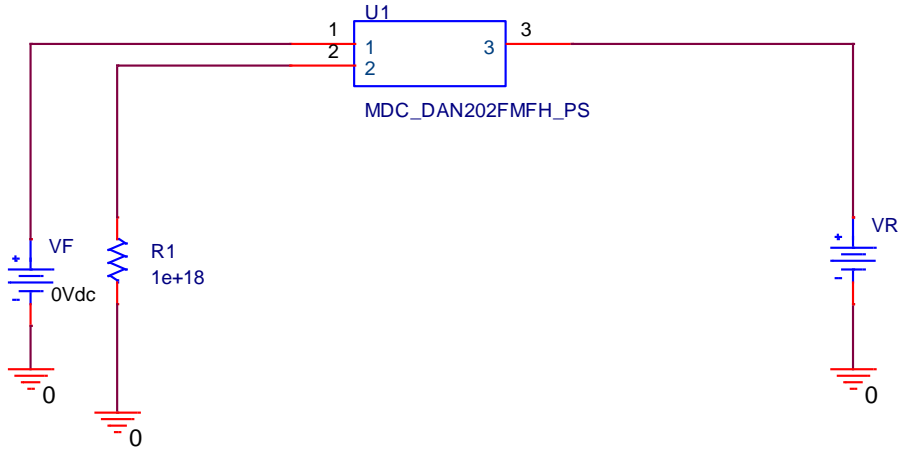
Simulation results are following.
 Explanatory notes — : simulated

IF-VF(Temp)



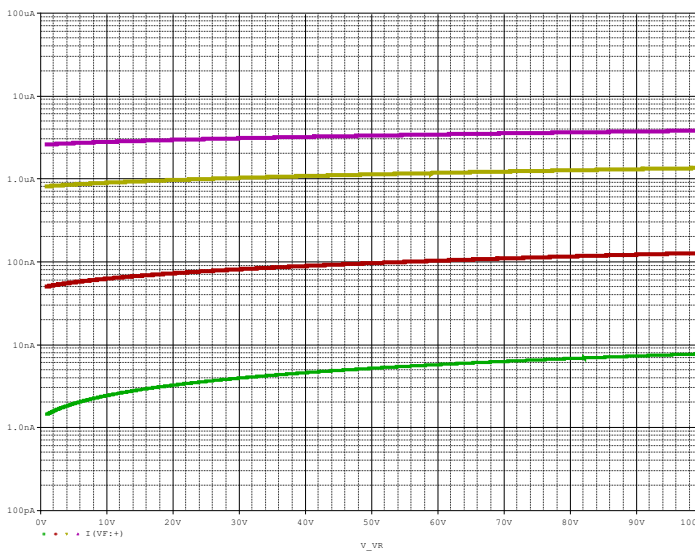
Blue:-25°C
 Green:25°C
 Red:75°C
 Yellow:125°C

IR-VR(Temp) Testbench
Referred to Data Sheet



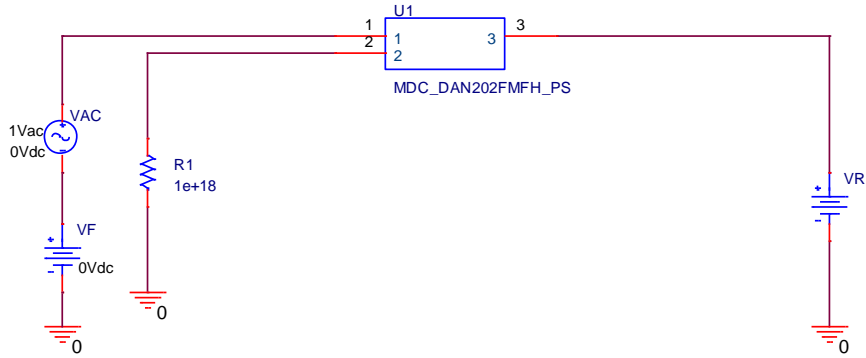
Simulation results are following.
 Explanatory notes — : simulated

IR-VR(Temp)



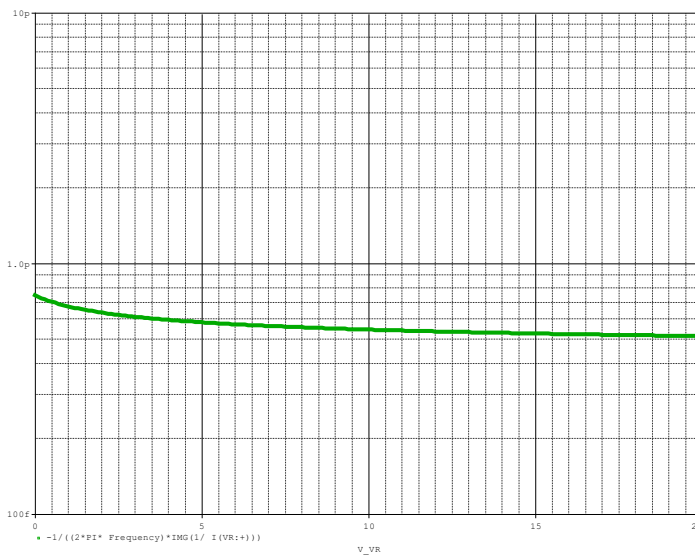
Green:25°C
 Red:75°C
 Yellow:125°C
 Purple:150°C

Capacitance Testbench
Referred to Data Sheet

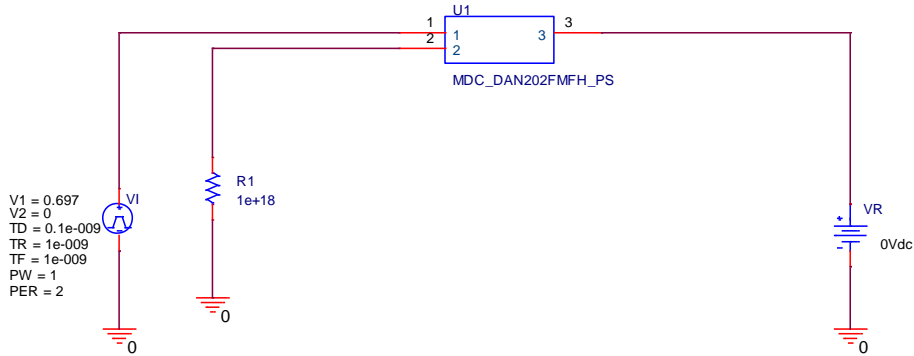


Simulation results are following.
 Explanatory notes — : simulated

Capacitance

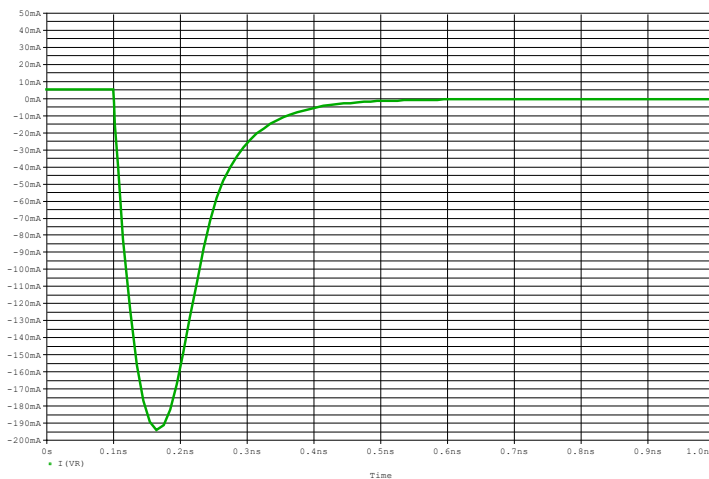


Reverse recovery characteristics Testbench
Referred to Data Sheet



Simulation results are following.
 Explanatory notes — : simulated

Reverse recovery characteristics



Trr:382.65580pSec

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