

LTspice Model Super Fast Recovery Diode ROHM RF101LP4S

Model Information

Model	A macro model	
Call Name	MDC_RF101LP4S_LT	
Pin Assign	1:A 2:C	
File List	Model Library	MDC_RF101LP4S_LT.lib
	Model Report	MDC_RF101LP4S_LT.pdf(this file)
Verified Simulator Version	LTspice XVII	

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version
- Product name RF101LP4S
- Company name ROHM

[Characteristics listed]

- Characteristics IfVf[Temp], IrVr[Temp], CjVr, TrrIfIr

Simulation Range

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

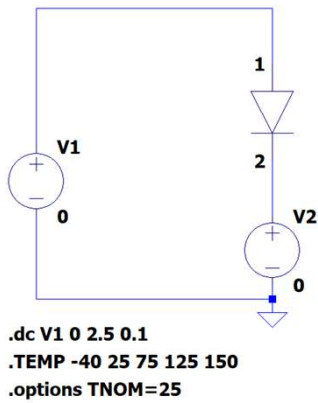
Model Functions Table

RANK=1

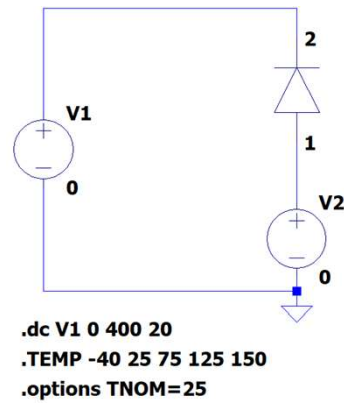
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	○

IfVf[Temp], IrVr[Temp] Testbench
 Referred to Data Sheet

IfVf[Temp]

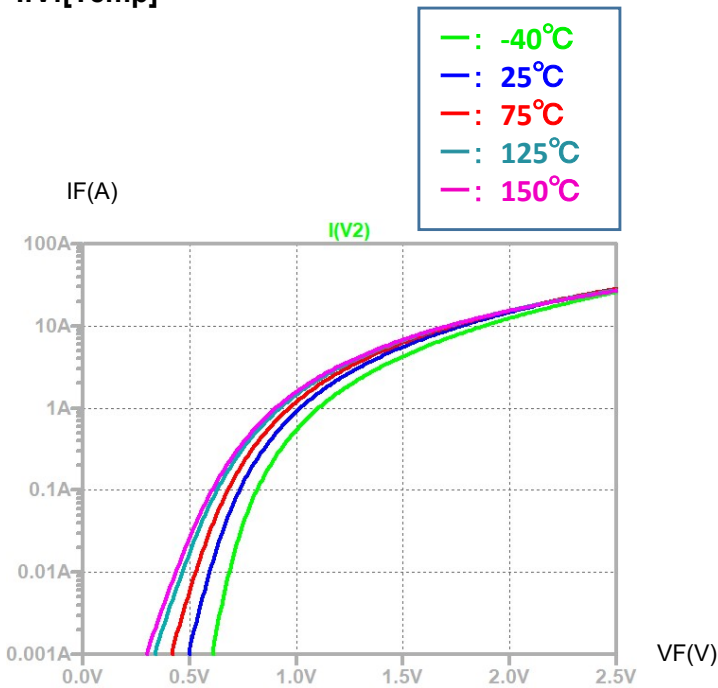


IrVr[Temp]

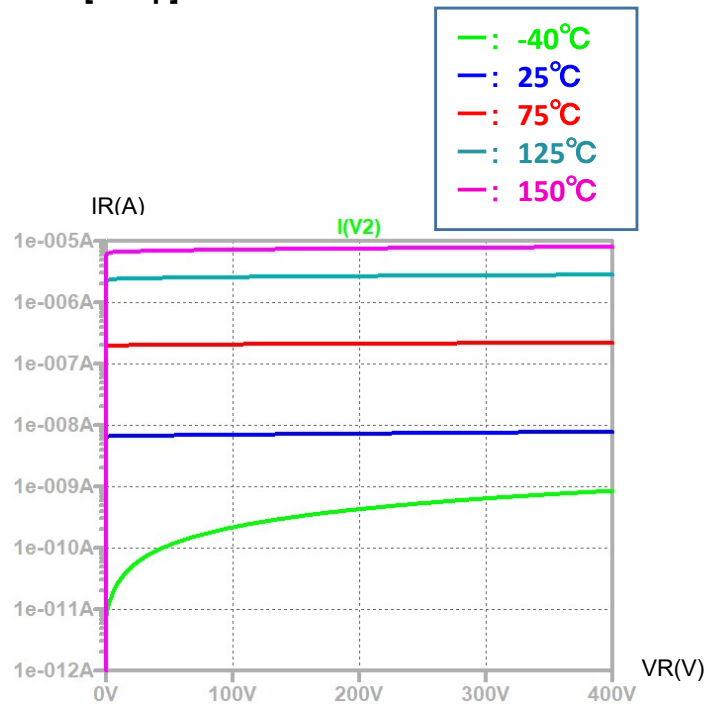


Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]



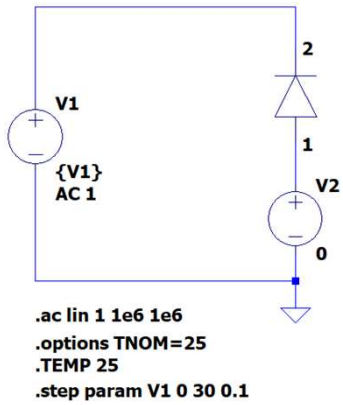
IrVr[Temp]



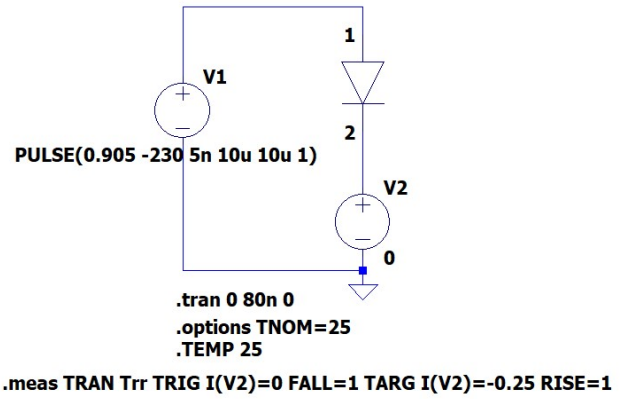
CjVr, Trrflr Testbench

Referred to Data Sheet

CjVr

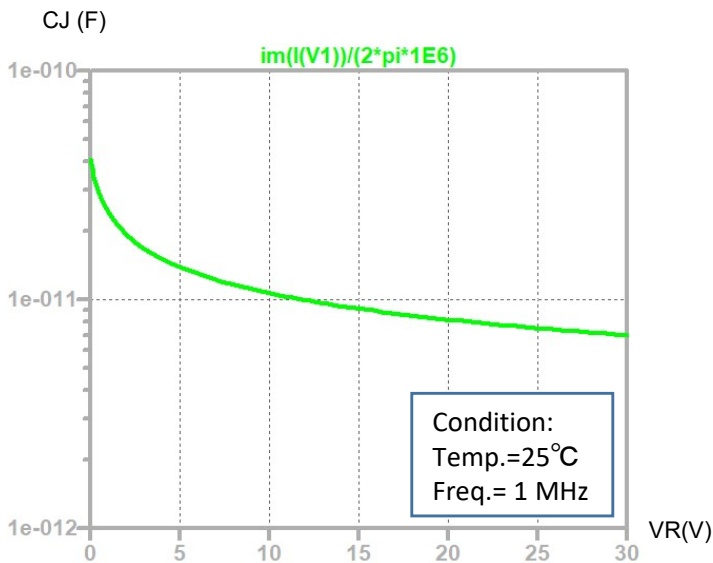


Trrflr



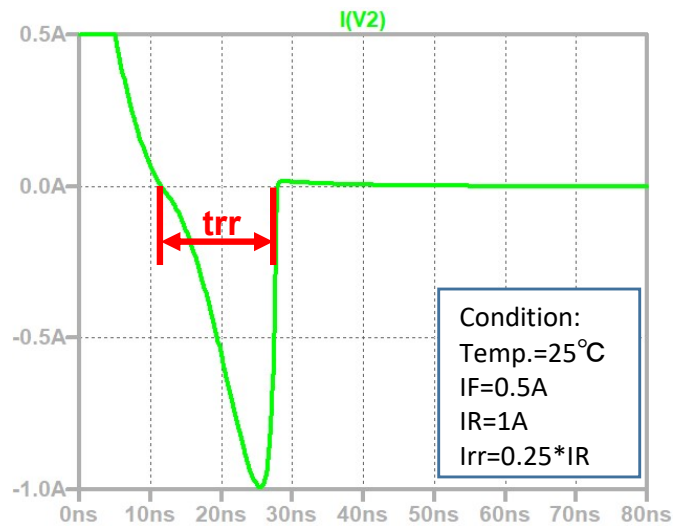
Simulation results are following.
 Explanatory notes — : simulated

CjVr



Trrflr

trr=16.1 ns



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