

LTspice Model

Fast Recovery Rectifier

Yangzhou YANGJIE

MDC_1F7G-E1-J0683_LT

Model Information

Model A macro model
Call Name MDC_1F7G-E1-J0683_LT
Pin Assign 1:1 2:2
File List Model Library MDC_1F7G-E1-J0683_LT.lib
Model Report MDC_1F7G-E1-J0683_LT.pdf(this file)
Verified Simulator Version LTspice v24
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 13-Mar-15/Rev. 2.0
- Product name 1F7G-E1-J0683
- Company name Yangzhou YANGJIE

[Characteristics listed]

- Characteristics
IF-VF
IR-VR
CJ-VR
Trr

Simulation Condition

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

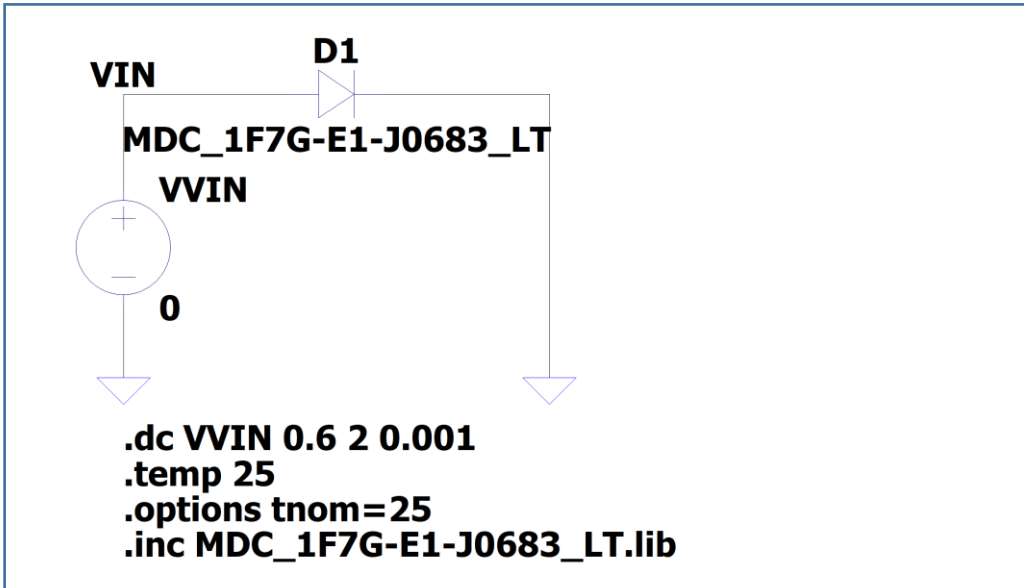
Item	Condition	Unit
Temperature	25	deg C

Model Functions Table
RANK=1

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

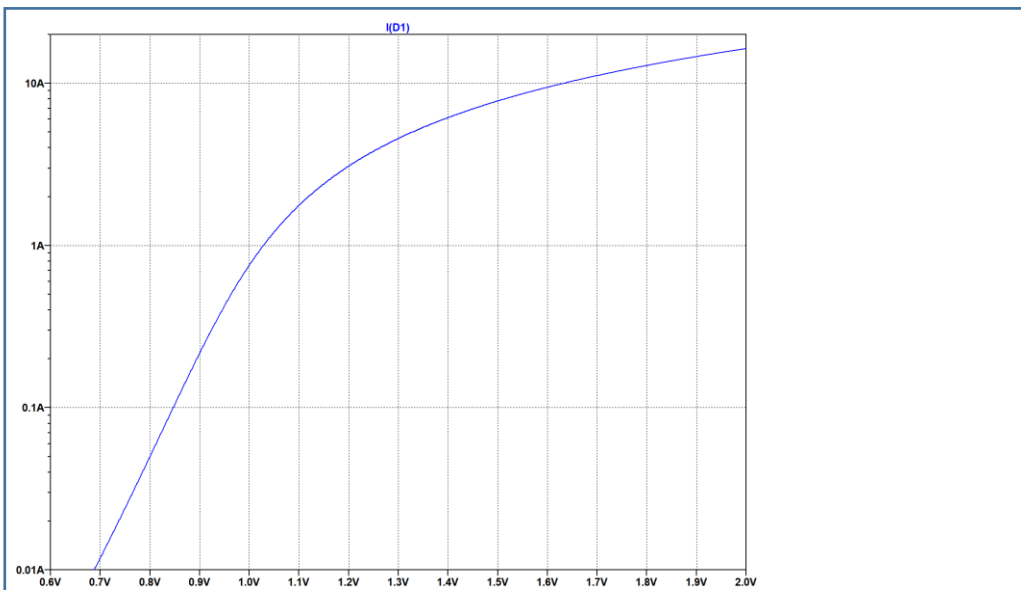
IF-VF

TestBench



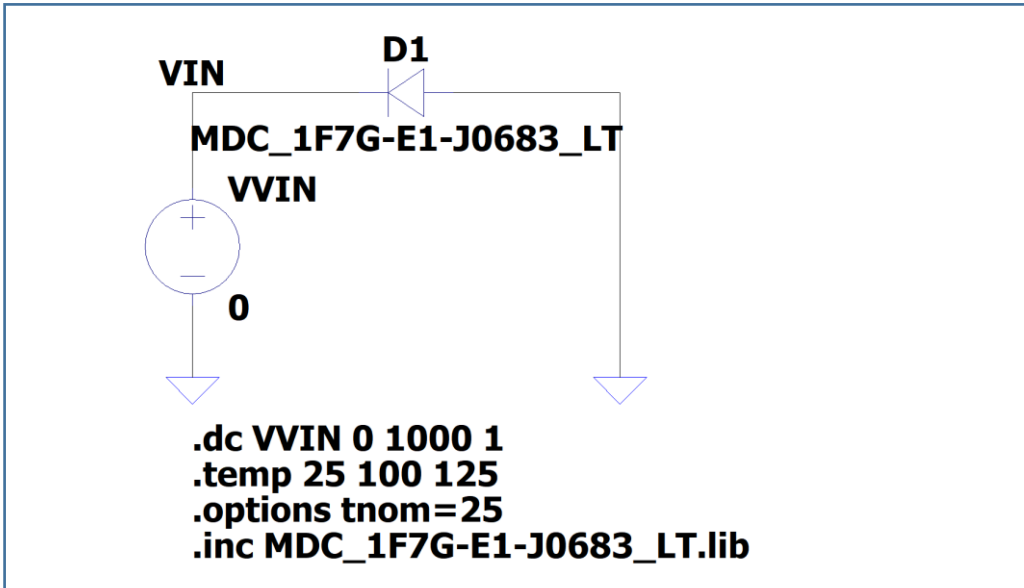
Simulation results are following.

Explanatory notes — : simulated



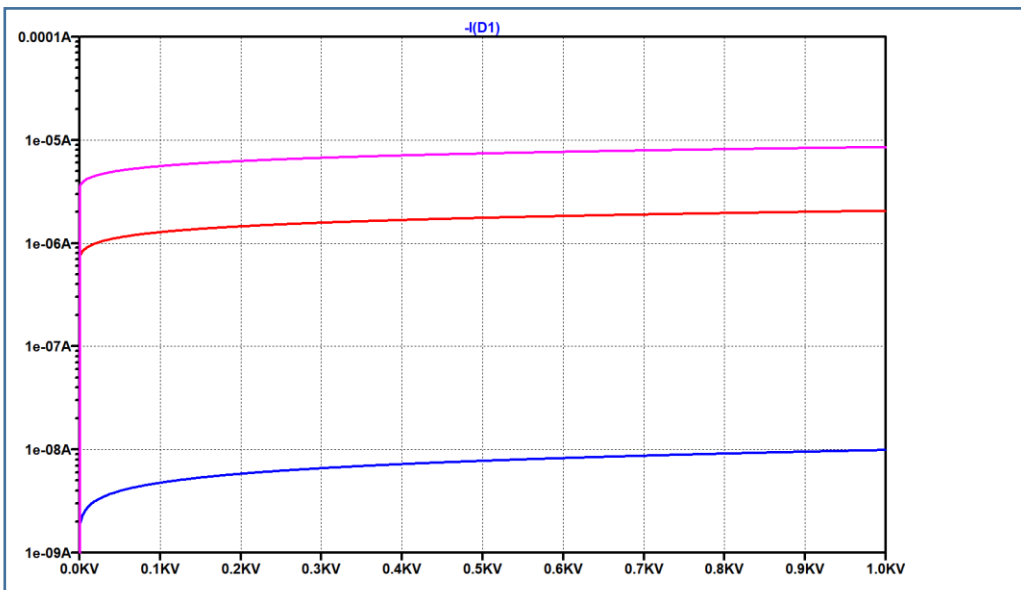
IR-VR

TestBench



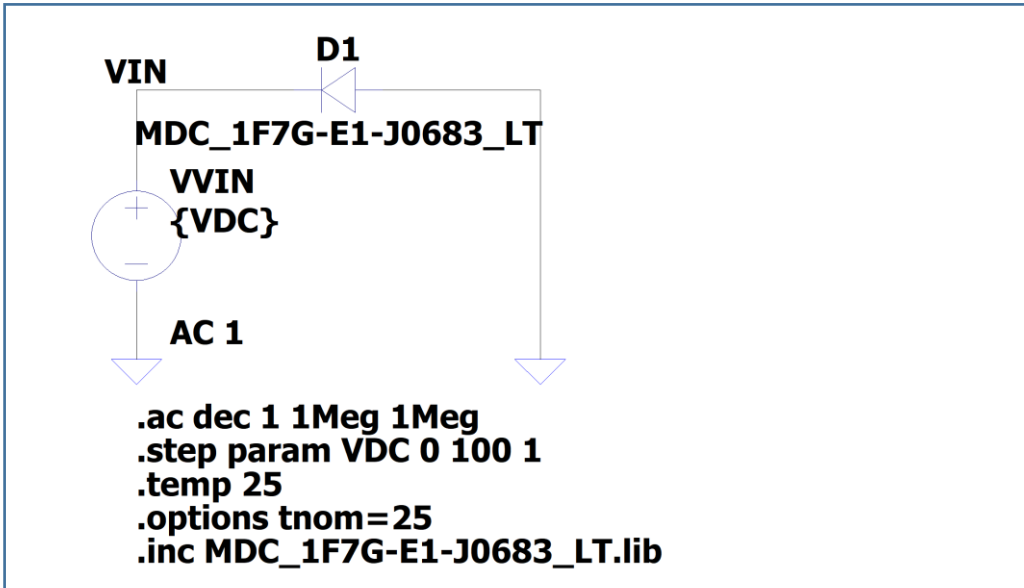
Simulation results are following.

Explanatory notes — : simulated



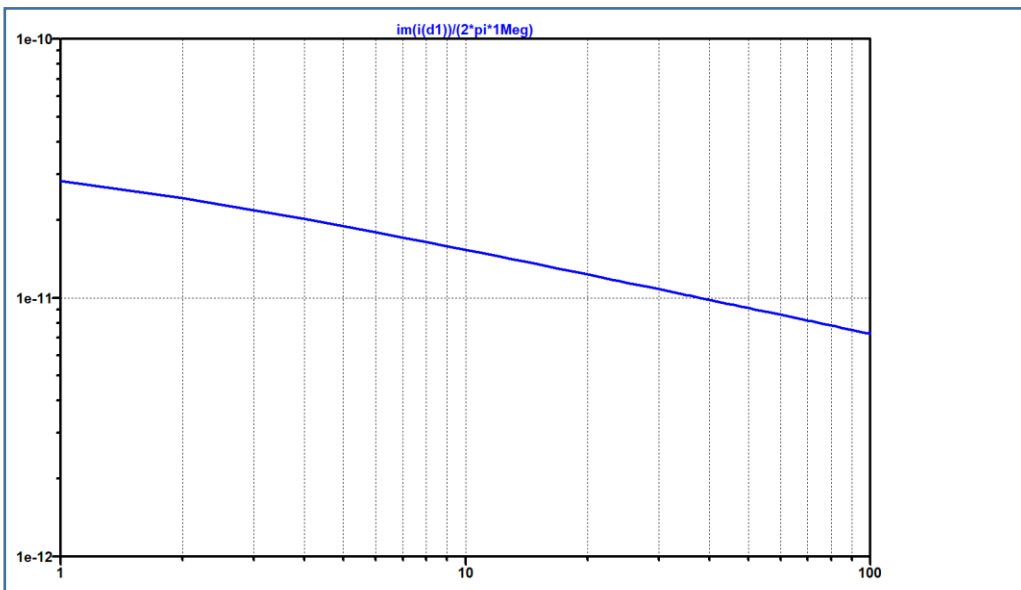
CJ-VR

TestBench

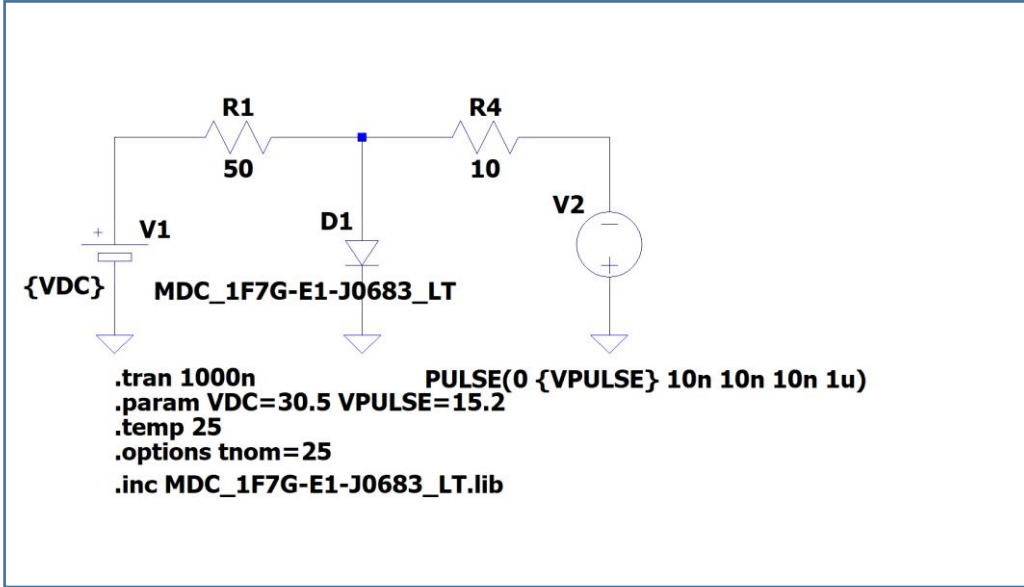


Simulation results are following.

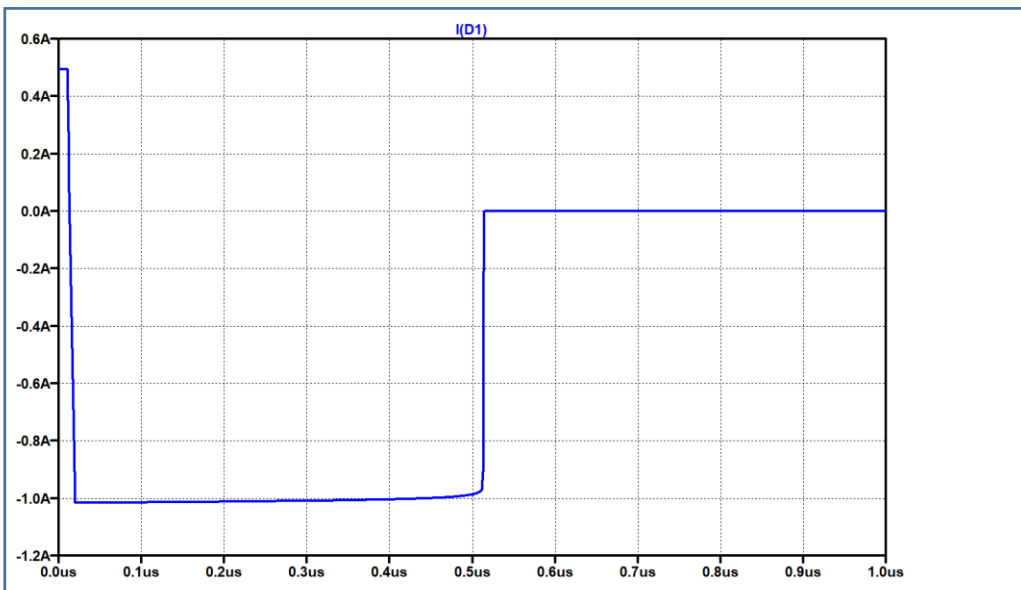
Explanatory notes — : simulated



Trr
TestBench



Simulation results are following.
Explanatory notes — : simulated



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