

LTspice Model

Rectifier Diode

SanKen

EP01C



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_EP01C_LT
Pin Assign 1:C 2:A
File List Model Library MDC_EP01C_LT02.lib
 Model Report MDC_EP01C_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2019.12.16
- Product name EP01C
- Company name SanKen Electric Co., Ltd.
- Characteristics IfVf[Temp],Irvr[Temp],TrrIfIr,TrrIfIr2,TrrWaveform,TrrWaveform2,SurgeWaveform

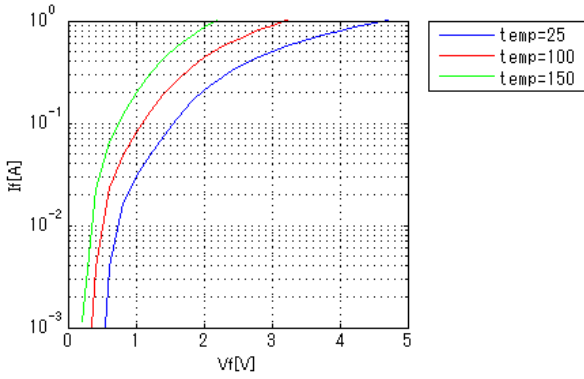
Simulation Range

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

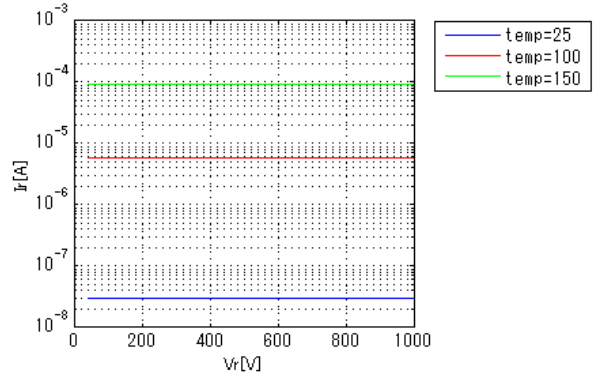
Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	1,000	V
Temperature	-40	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

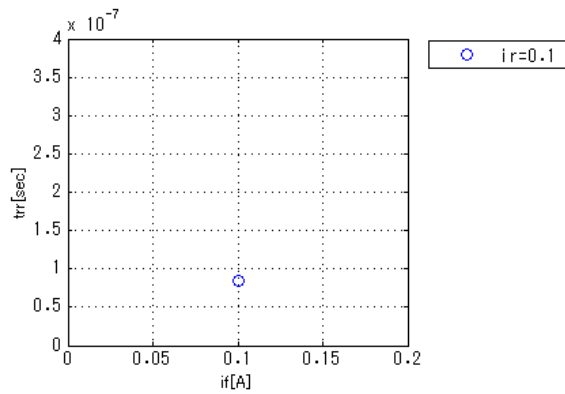
IfVf[Temp]



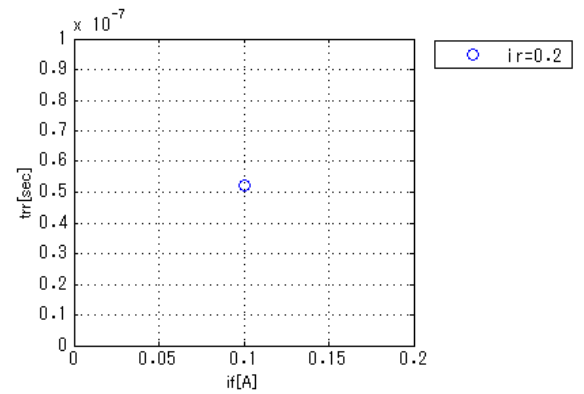
IrVr[Temp]



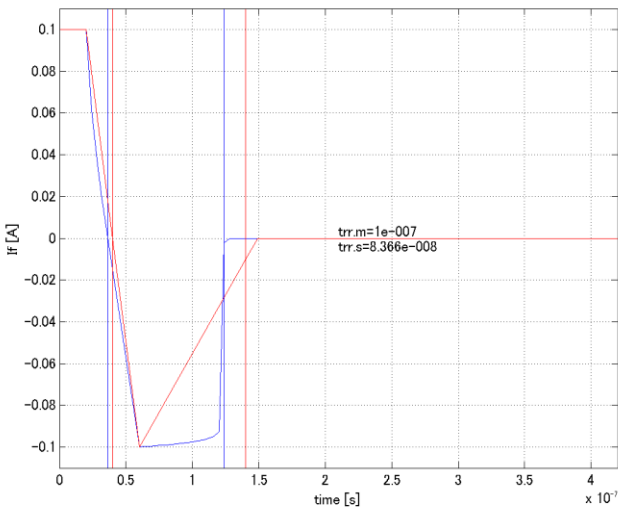
TrrIf1r



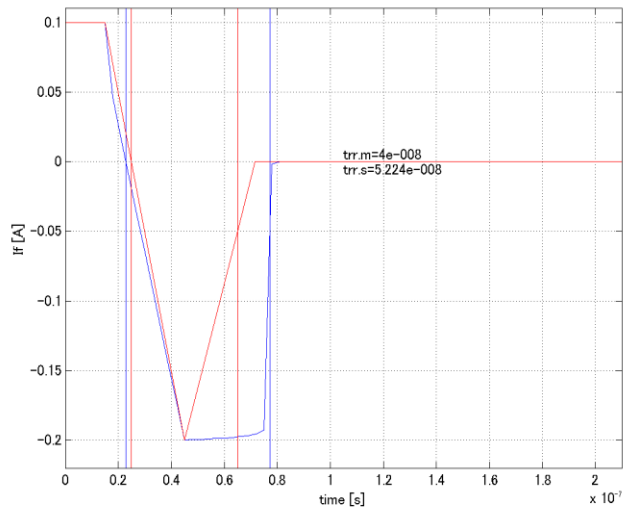
TrrIf1r2



Trr Waveform



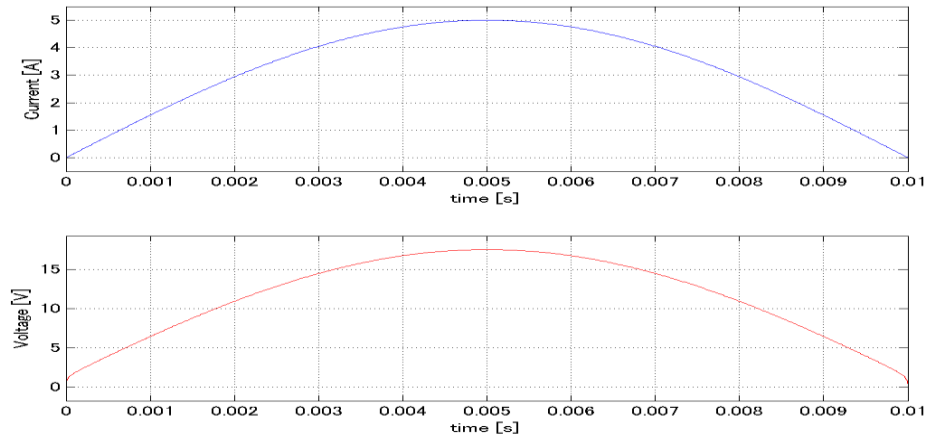
Trr Waveform 2



Simulation results are following.

Explanatory notes — : simulated

Surge Waveform



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