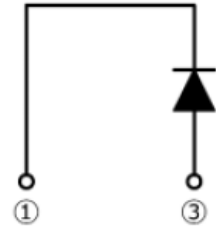


ADS Model

Fast Recovery Diode

NIEC

FSU05A40



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_FSU05A40_AD
Pin Assign 1:C 3:A
File List Model Library MDC_FSU05A40_AD.zip
 Model Report MDC_FSU05A40_AD.pdf (this file)

Verified Simulator Version ADS version 2020 update 2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version March 2016 v01
- Product name FSU05A40
- Company name Nihon Inter Electronics Corporation
- Characteristics IfVf[Temp],IrrVr[Temp],TrrIfIrr,TrrWaveform,SurgeWaveform

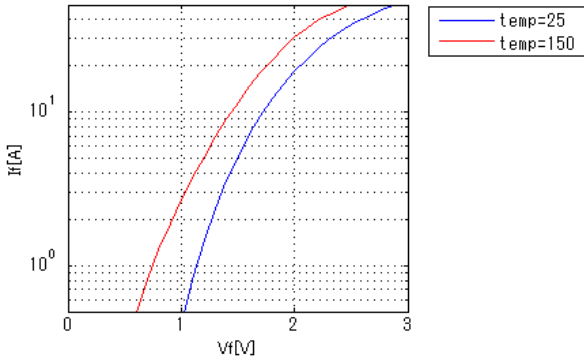
Simulation Range

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

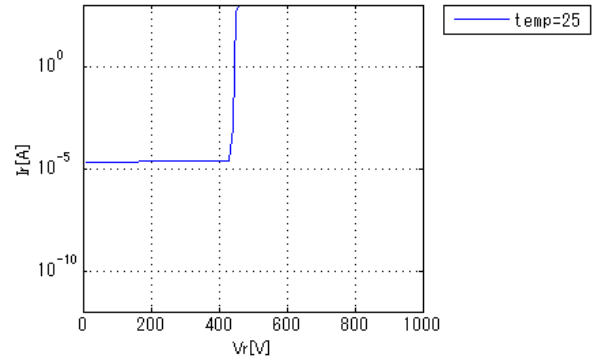
Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	400	V
Temperature	-40	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

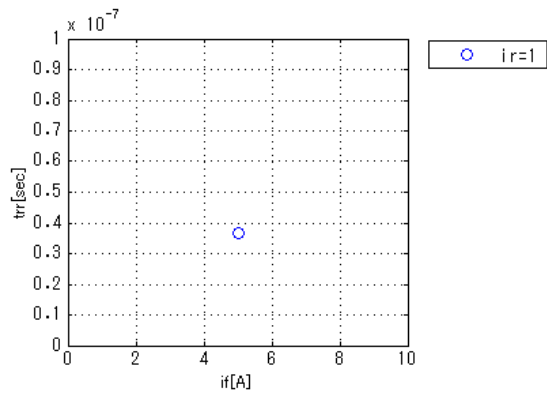
IfVf[Temp]



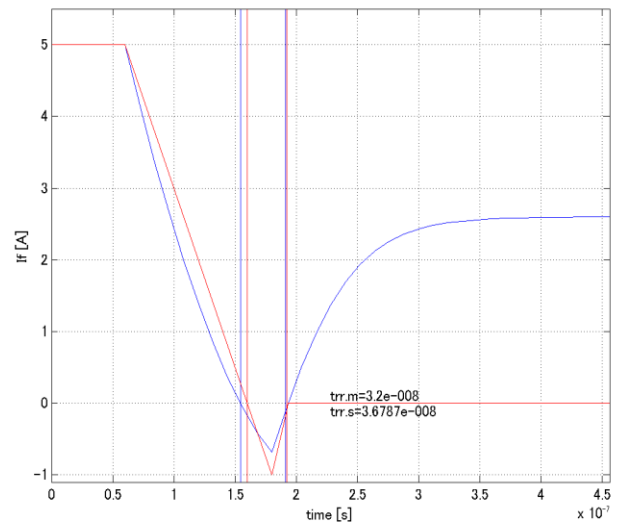
IrVr[Temp]



TrrIfIr

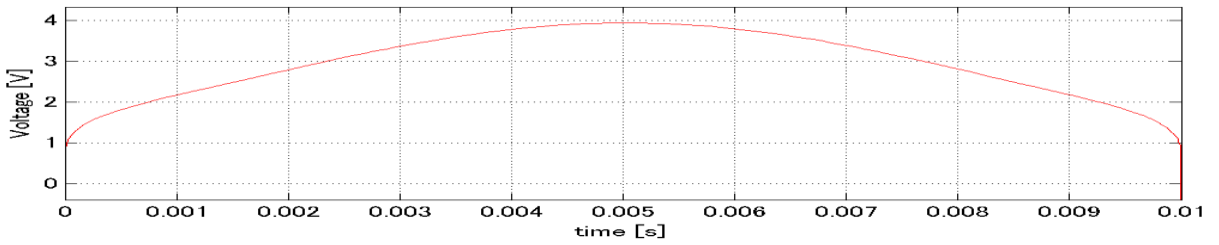
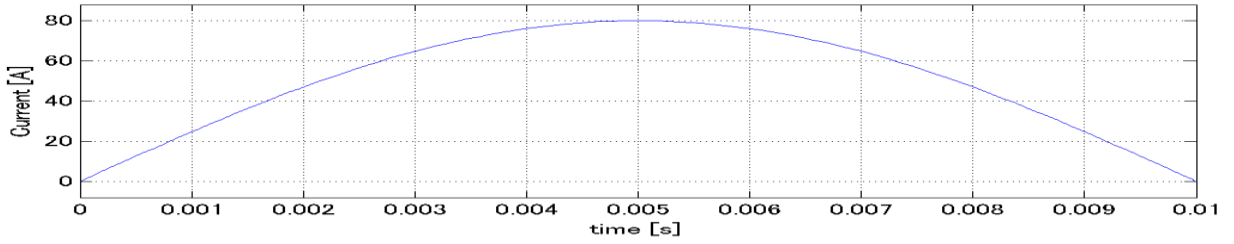


Trr Waveform



Simulation results are following.
Explanatory notes — : simulated

Surge Waveform (Forward)



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