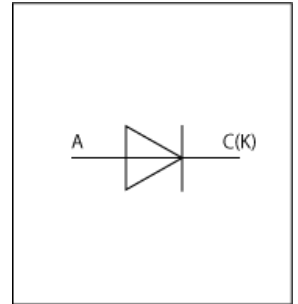


LTspice Model

Fast Recovery Diode

ROHM

RFN1LAM6S



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_RFN1LAM6S_LT
Pin Assign 1:A 2:C
File List Model Library MDC_RFN1LAM6S_LT01.lib
 Model Report MDC_RFN1LAM6S_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 2017.04 - Rev.B
- Product name RFN1LAM6S
- Company name ROHM Co., Ltd.
- Characteristics IfVf[Temp],IrrVr[Temp],CjVr,Trrlflr,TrrWaveform

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	660	V
Temperature	-55	to	150	deg C

Diode

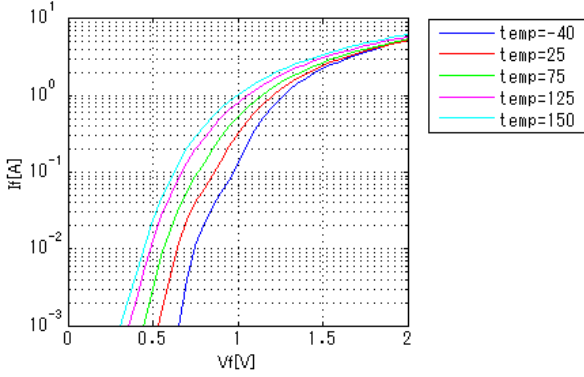
○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table
RANK=2

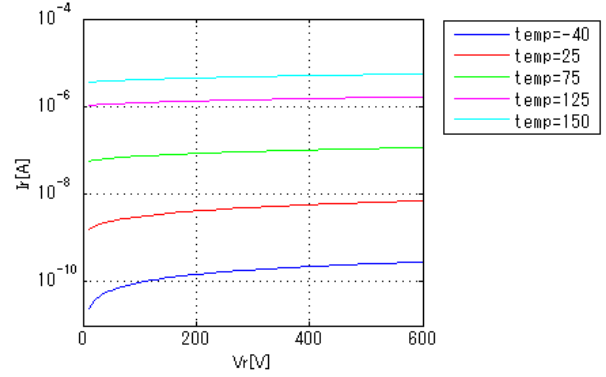
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	○
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	2	—

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

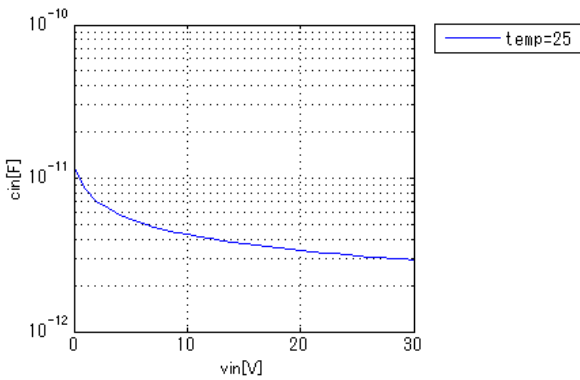


IrVr[Temp]



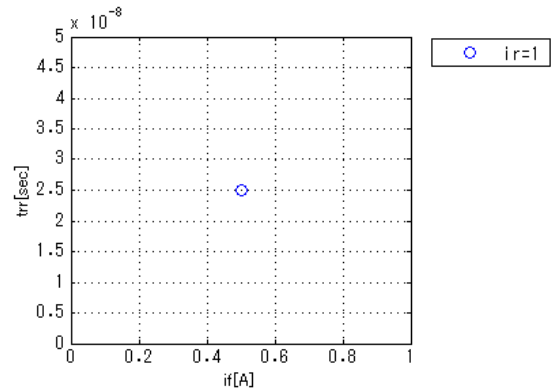
CjVr

Freq. = 1MHz



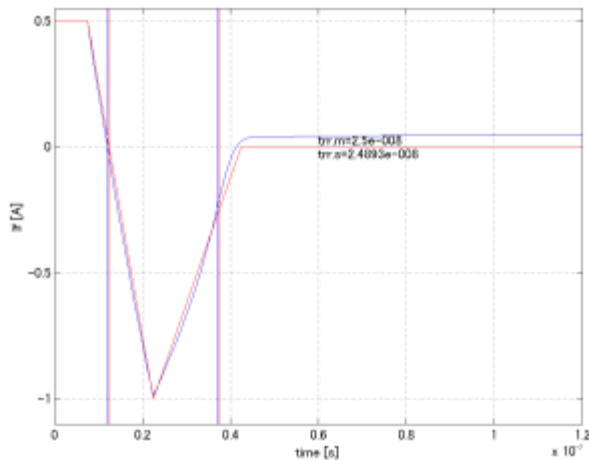
TrrIfIr

Irr = 0.25A, didt = 100A/us



Trr Waveform (Red:Datasheet Blue:Simulation)

Irr = 0.25A, didt = 100A/us, If = 0.5A



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