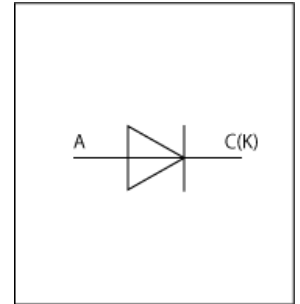


LTspice Model

Fast Recovery Diode

ROHM

RF081LAM2STFTR



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_RF081LAM2STFTR_LT
Pin Assign 1:A 2:C
File List Model Library MDC_RF081LAM2STFTR_LT01.lib
 Model Report MDC_RF081LAM2STFTR_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 RF081LAM2STFTR
- Company name ROHM Co., Ltd.
- Characteristics IfVf[Temp],IrrVr[Temp],CjVr,TrrIflr

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	200	V
Temperature	-55	to	150	deg C

Diode

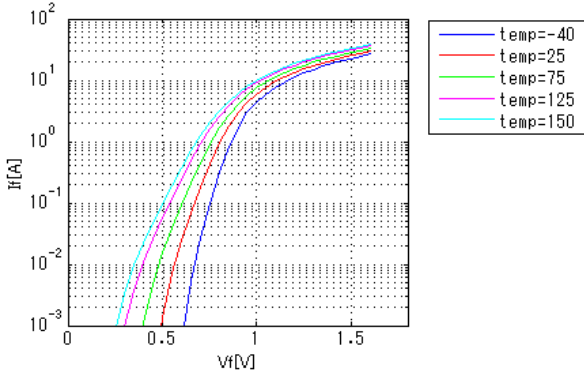
○ : Implemented
 × : Not Implemented
 — : Not applicable

Model Functions Table
RANK=1

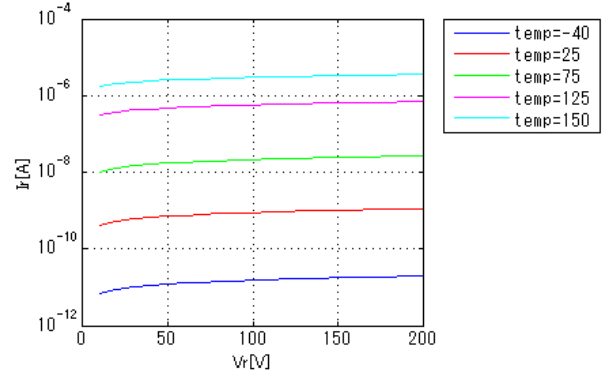
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	○
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge current-Transient	1	○

Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]

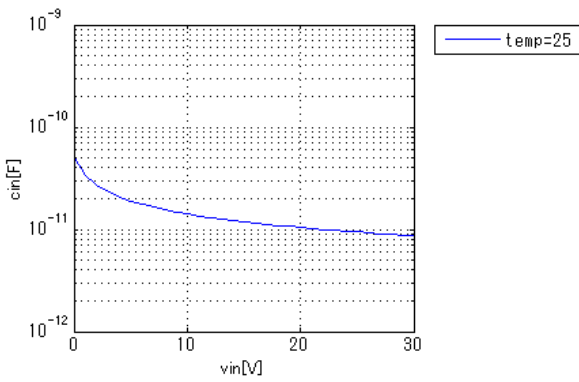


IrVr[Temp]



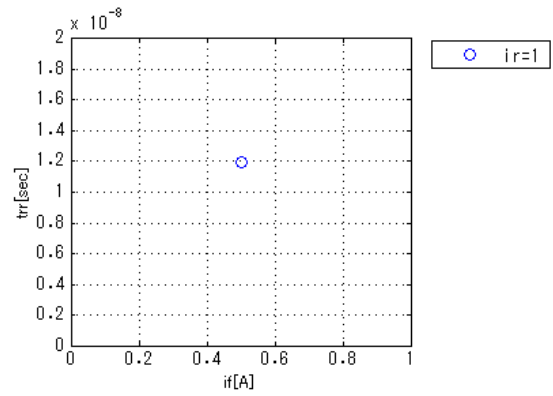
CjVr

Freq = 1000000Hz



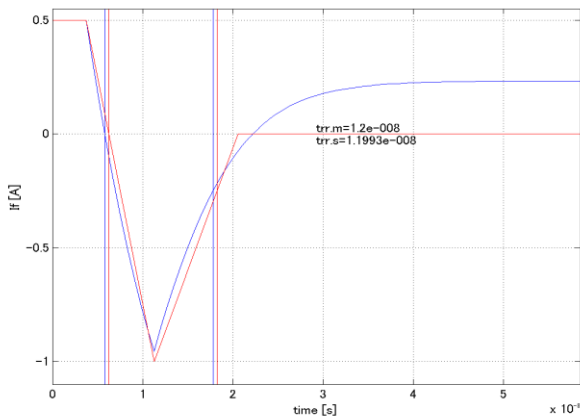
TrrIfIr

irr = 0.25A, didt = 200A/us



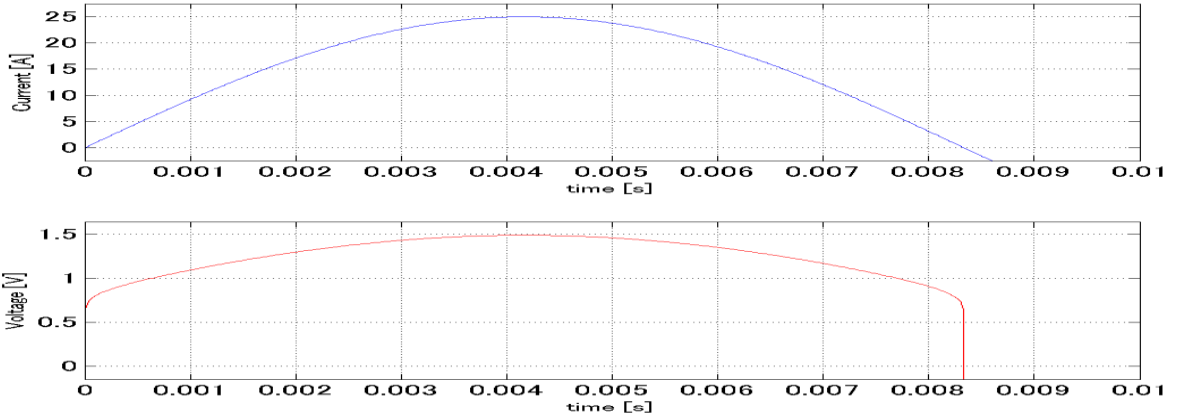
Trr Waveform (Red : Datasheet Blue : Simulation)

irr = 0.25A, didt = 200A/us, IF = 0.5A, IR = 1A



Simulation results are following.
Explanatory notes — : simulated

Surge Current Waveform (Forward Sine Half 60Hz)



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