

PSpice Model Fast Recovery Diode ROHM RFN1LAM6S

Model Information

 Model
 A macro model based on general SPICE diode model

 Call Name
 MDC_RFN1LAM6S_PS

 Pin Assign
 1:A 2:C

 File List
 Model Library

 Model Report
 MDC_RFN1LAM6S_PS.ps01.lib

Verified Simulator Version Note

PSpice version 17.2

References

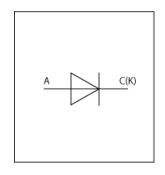
The information which was used for modeling is as follow:

2017.04 - Rev.B RFN1LAM6S ROHM Co., Ltd. IfVf[Temp],IrVr[Temp],CjVr,TrrIfIr,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



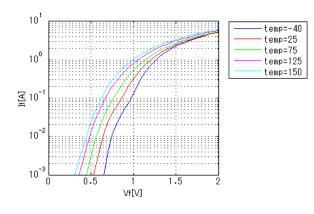
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Diode		O : Implemented × : Not Implemented	
Model Functions Table	RANK=2	— : Not applicable	
Functions	RANK	Implemented	
IF-VF(Temp)	1	0	
IR-VR(Temp)	1	0	
Capacitance	1	0	
Reverse recovery characteristics	1	0	
Rectification characteristics(Bridge)	1	—	
Surge voltage-Transient	2	—	



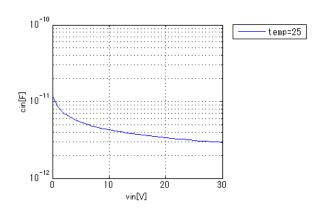
Simulation results are following. Explanatory notes -: simulated

lfVf[Temp]

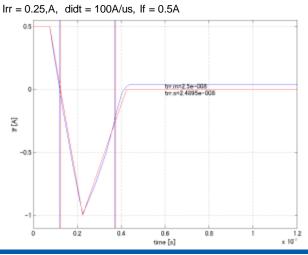


CjVr

Freq. = 1MHz

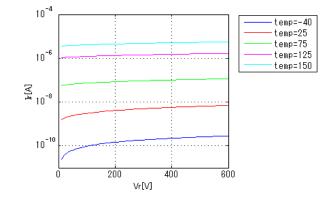


Trr Waveform (Red:Datasheet Blue:Simulation)



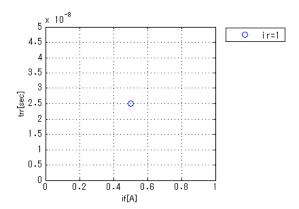
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IrVr[Temp]



Trrifir

Irr = 0.25A, didt = 100A/us





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