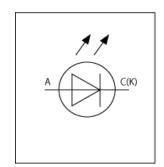


PSpice Model Light Emitting Diode ASAHI RUBBER NHSB146A



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC_NHSB146A_PS

Pin Assign 1:A 2:C

File List Model Library MDC_NHSB146A_PS01.lib

Model Report MDC_NHSB146A_PS.pdf (this file)

Verified Simulator Version PSp

Note

PSpice version 17.2

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 2022.12.2Product name NHSB146A

Company name ASAHI RUBBER Inc.

Characteristics IfVf[Temp],VfTemp[If],IrVr[Temp],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.	
Temperature	-40	to	110	deg C



Model Functions Table

Diode

O: Implemented

×: Not Implemented

—: Not applicable

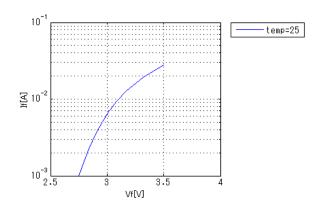
RANK=1

	IVAININ-1	
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	0
Capacitance	1	_
Reverse recovery characteristics	1	_
Zz-Iz	1	_
Rectification characteristics(Bridge)	1	_
Surge-Transient	1	0
tlp	1	_



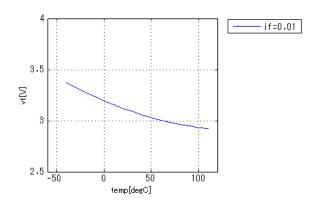
Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]

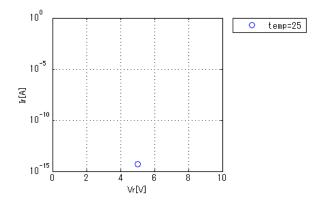


VfTemp[lf]

if = 0.01



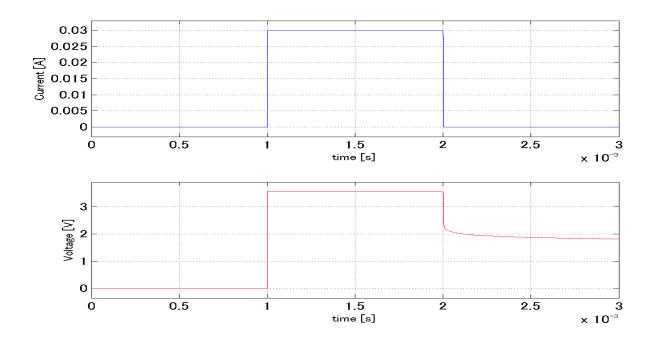
IrVr[Temp]





Simulation results are following. Explanatory notes — : simulated

Surge Current Waveform (Forward tp=1ms)





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