PSpice Model Light Emitting Diode ROHM SML-A12M8T

Model Information

 Model
 A macro model based on general SPICE diode model

 Call Name
 MDC_SML-A12M8T_PS

 Pin Assign
 1:A 2:C

 File List
 Model Library
 MDC_SML-A12M8T_PS01.lib

 Model Report
 MDC_SML-A12M8T_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 17.2

References

The information which was used for modeling is as follow:

Company name

Characteristics

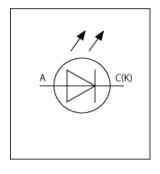
[Data Sheet] • Date/Version • Product name

2021.11 - Rev.017 SML-A12M8T ROHM Co., Ltd. IfVf[Temp],IrVr[Temp]

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	5.5	V
Temperature	-40	to	100	deg C



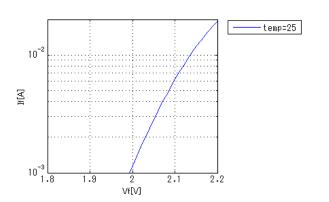
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Diode		O : Implemented × : Not Implemented	
Model Functions Table	RANK=2		
Functions	RANK	Implemented	
IF-VF(Temp)	1	0	
IR-VR(Temp)	1	0	
Capacitance	1	—	
Reverse recovery characteristics	1	—	
Rectification characteristics(Bridge)	1	—	
Surge voltage-Transient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

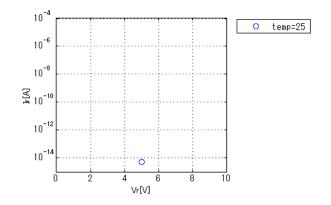


Simulation results are following. Explanatory notes -: simulated

lfVf[Temp]



IrVr[Temp]





Simulation results are following. Explanatory notes -: simulated

lfVf[Name]

Temp = 25degC



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