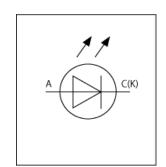


LTspice Model Light Emitting Diode ROHM SML-A12M8T



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC_SML-A12M8T_LT

Pin Assign 1:A 2:C

File List Model Library MDC_SML-A12M8T_LT01.lib

Model Report MDC_SML-A12M8T_LT.pdf (this file)

Verified Simulator Version

Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version
 Product name
 Company name
 Characteristics
 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



Diode

O: Implemented

×: Not Implemented

—: Not applicable

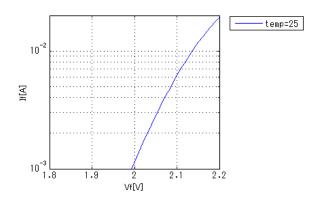
Model Functions Table RANK=2

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	_

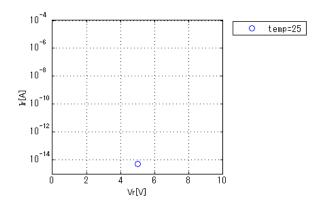


Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]



IrVr[Temp]





Simulation results are following. Explanatory notes — : simulated

IfVf[Name]

Temp = 25degC



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MoDeCH Inc.

Head Office

Location: Taiju-Seimei-Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:http://www.modech.com/en/