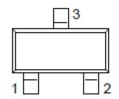
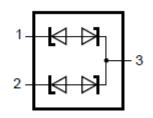


LTspice Model ESD Protection Diode Nexperia PESD2CAN





Model Information

Model A macro model based on general SPICE diode model

Call Name MDC_PESD2CAN_LT Pin Assign 1:C1 2:C2 3:CommonC

File List Model Library MDC_PESD2CAN_LT01.lib

Model Report MDC_PESD2CAN_LT.pdf (this file)

Verified Simulator Version LTs

Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev. 2 - 27 September 2012

Product nameCompany namePESD2CANNexperia B.V.

Characteristics IrVr[Temp],CjVr[Temp],VrIr[Temp],VrIr[Temp]2,ZzIz,SurgeG

unWaveform

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	24	V
Temperature	-65	to	150	deg C



Model Functions Table

Diode

O: Implemented

×: Not Implemented

—: Not applicable

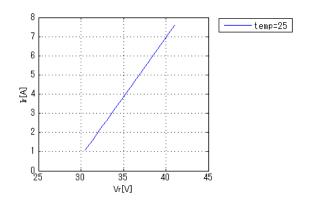
RANK=1

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



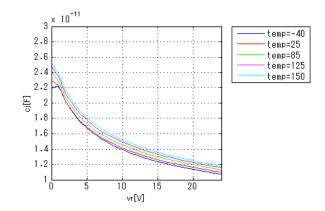
Simulation results are following. Explanatory notes — : simulated

IrVr[Temp]

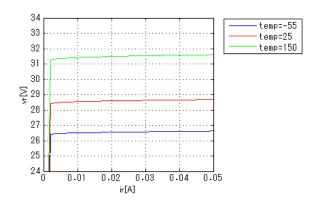


CjVr[Temp]

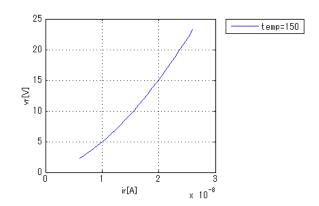
Freq = 1000000Hz



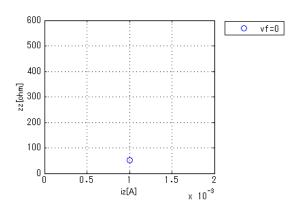
Vrlr[Temp]



VrIr[Temp]2



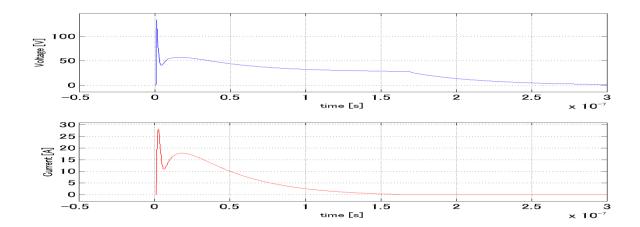
Zzlz





Simulation results are following. Explanatory notes — : simulated

Surge Gun Waveform





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