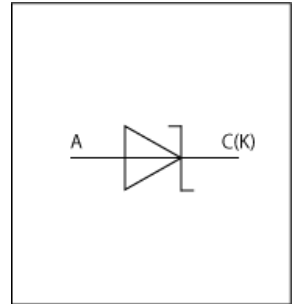


ADS Model

Zener Diode

ROHM

PDZVTR13B



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_PDZVTR13B_AD
Pin Assign 1:C 2:A
File List Model Library MDC_PDZVTR13B_AD01.lib
 Model Report MDC_PDZVTR13B_AD.pdf (this file)

Verified Simulator Version ADS version 2016
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2019/04/19_Rev.005
- Product name PDZVTR13B
- Company name ROHM Co., Ltd.
- Characteristics VrIr[Temp],IrVr[Temp],IfVf[Temp],CjVr

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	14	V
Temperature	-55	to	150	deg C

Diode

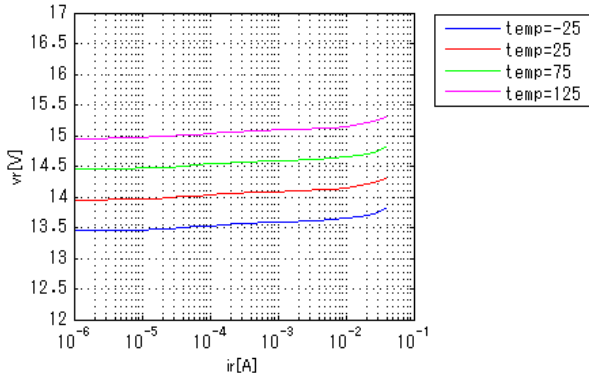
○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table
RANK=1

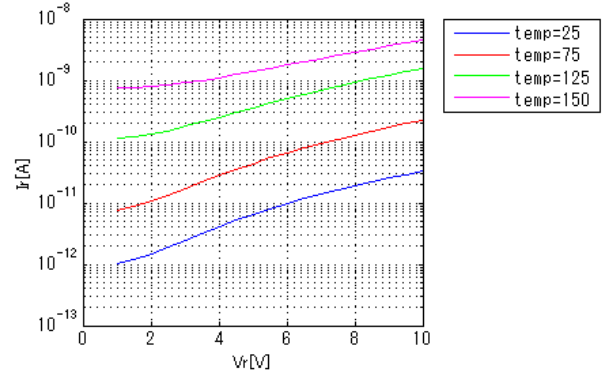
Functions	RANK	Implemented
IF-VF(Temp)	1	○
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge-Transient	1	—
tlp	1	—

Simulation results are following.
 Explanatory notes — : simulated

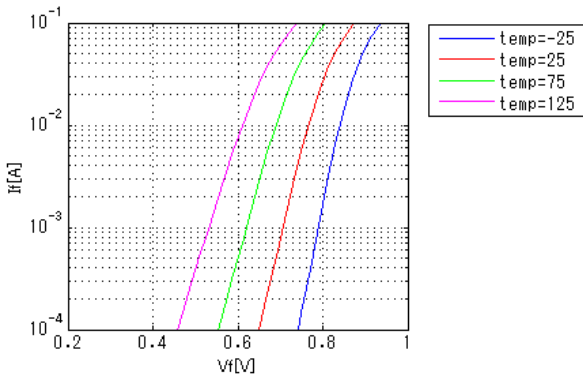
VrIr[Temp]



IrVr[Temp]

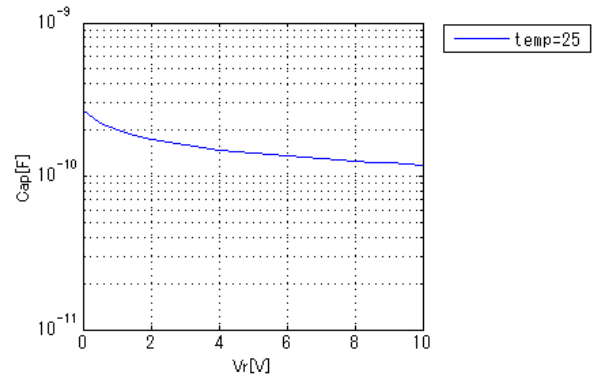


IfVf[Temp]



CjVr

Freq = 1000000Hz



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