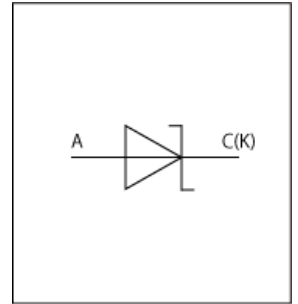


ADS Model

Zener Diode

ROHM

UDZS27B



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_UDZS27B_AD
Pin Assign 1:C 2:A
File List Model Library MDC_UDZS27B_AD.zip
 Model Report MDC_UDZS27B_AD.pdf (this file)

Verified Simulator Version ADS version 2020 Update 2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2012.02 - Rev.D
- Product name UDZS27B
- Company name ROHM Co., Ltd.
- Characteristics VrIr[Temp],IrVr[Temp],CjVr,ZzIz

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.	
Zener Voltage(at 5mA)	27	to	27	V
Temperature	-55	to	150	deg C

Diode

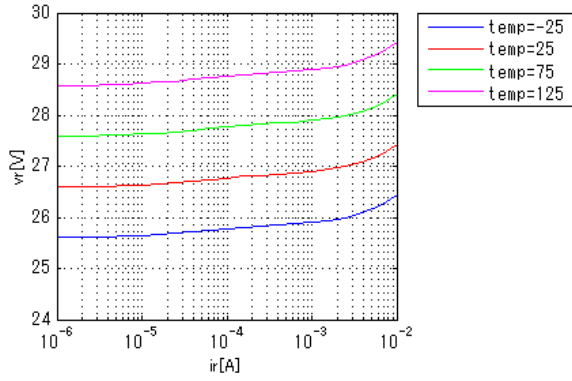
○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table
RANK=1

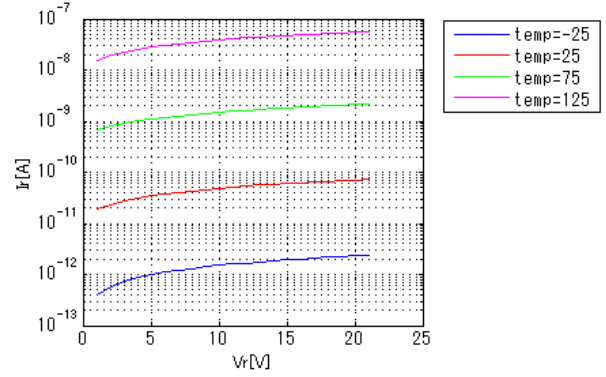
Functions	RANK	Implemented
IF-VF(Temp)	1	—
IR-VR(Temp)	1	○
Capacitance	1	○
Reverse recovery characteristics	1	—
Zz-Iz	1	○
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	1	—

Simulation results are following.
 Explanatory notes — : simulated

VrIr[Temp]

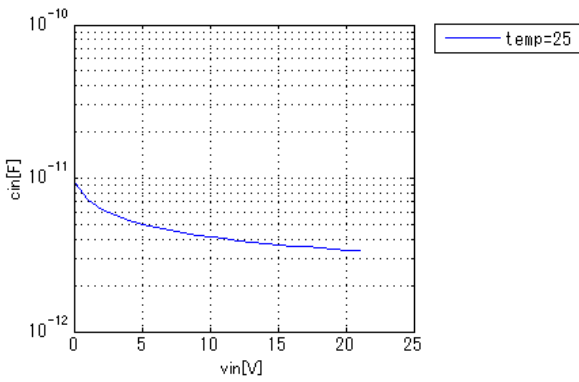


IrVr[Temp]



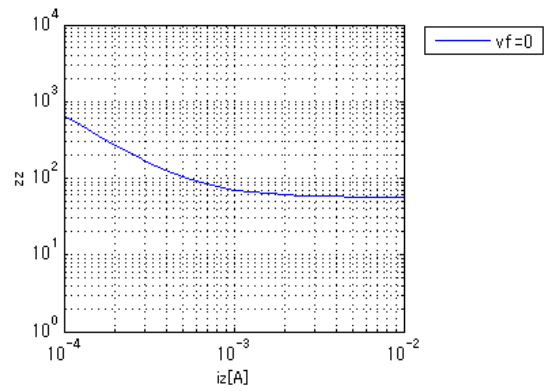
CjVr

Freq = 1000000Hz



ZzIz

izl = 0.885377, izh = 1.1146236



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