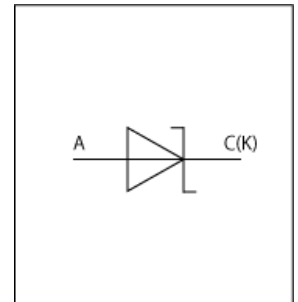


PSpice Model

Zener Diode

ROHM

KDZVTFR18B



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_KDZVTFR18B_PS
Pin Assign 1:C 2:A
File List Model Library MDC_KDZVTFR18B_PS01.lib
Model Report MDC_KDZVTFR18B_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2019/04/17 - Rev.005
- Product name KDZVTFR18B
- Company name ROHM Co., Ltd.
- Characteristics IfVf[Temp],IrVr[Temp],IzVz[Temp],CjVr,
BvTemp,IrVr(Breakdown)

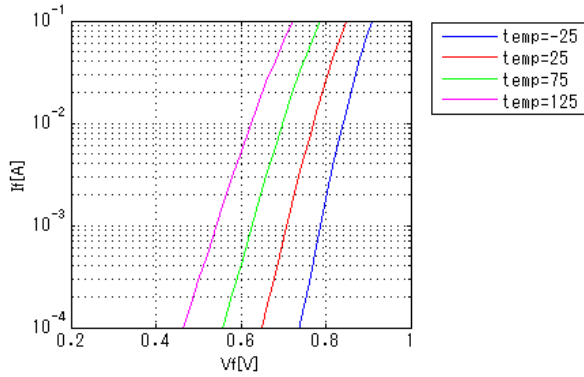
Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

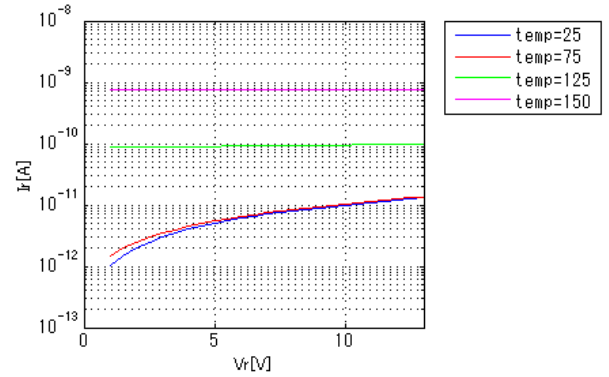
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	10,000	V
Reverse Voltage	0	to	38	V
Temperature	-55	to	150	deg C

Simulation results are following.
Explanatory notes — : simulated

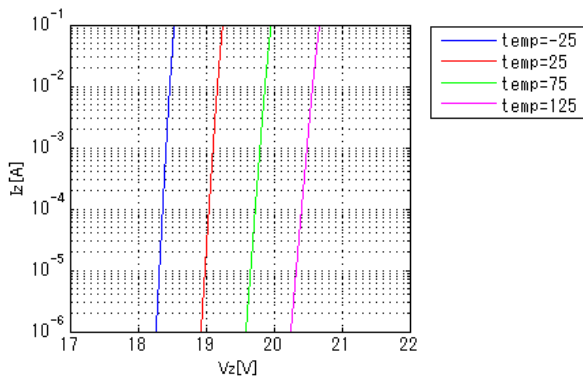
IfVf[Temp]



IrVr[Temp]

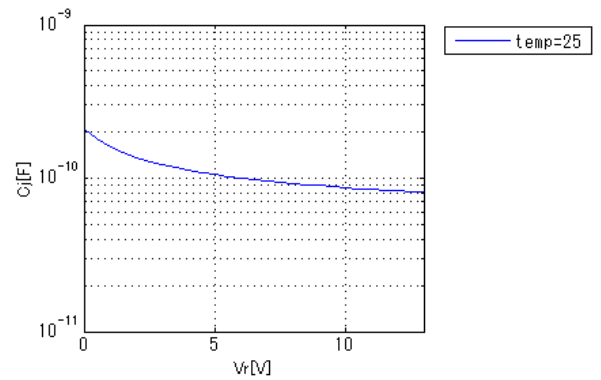


IzVz[Temp]

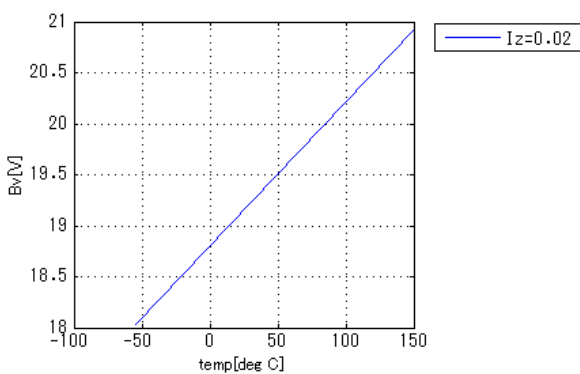


CjVr

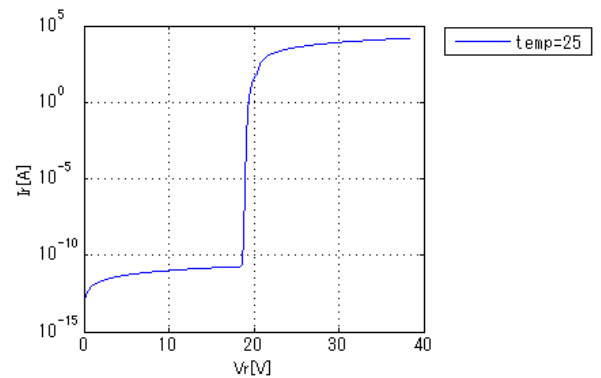
Freq. = 1MHz



BvTemp



IrVr(Breakdown)



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