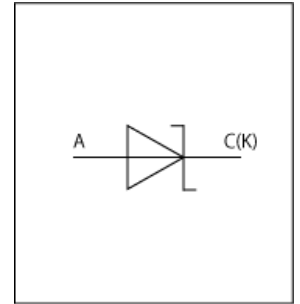


LTspice Model

Zener Diode

ROHM

UDZS8.2B



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_UDZS8_2B_LT
Pin Assign 1:C 2:A
File List Model Library MDC_UDZS8_2B_LT01.lib
 Model Report MDC_UDZS8_2B_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2012.02 - Rev.D
- Product name UDZS8.2B
- Company name ROHM Co., Ltd.
- Characteristics VrIr[Temp],IrVr[Temp],CjVr,Zzlz

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) | 8 | to | 8 | V |
| Temperature | -55 | to | 150 | deg C |

Diode

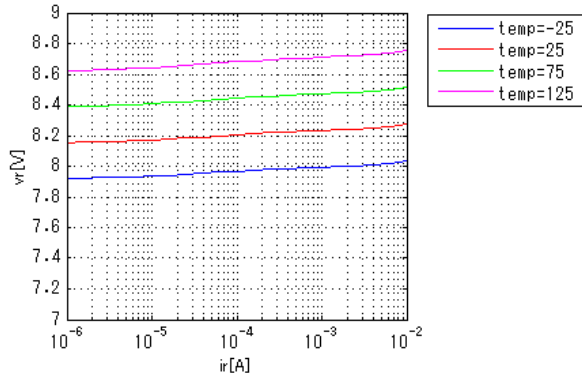
○ : Implemented
× : Not Implemented
— : Not applicable

Model Functions Table
RANK=1

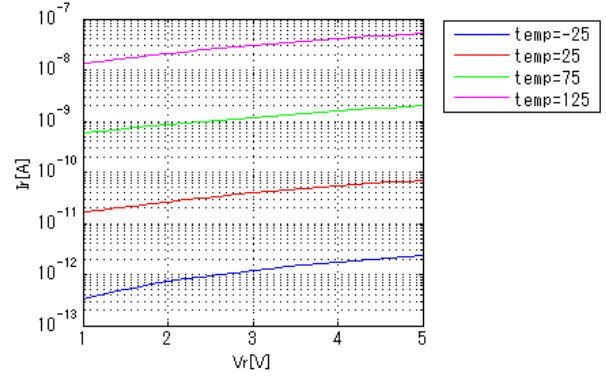
| Functions | RANK | Implemented |
|---------------------------------------|------|-------------|
| IF-VF(Temp) | 1 | — |
| IR-VR(Temp) | 1 | ○ |
| Capacitance | 1 | ○ |
| Reverse recovery characteristics | 1 | — |
| Zz-Iz | 1 | ○ |
| Rectification characteristics(Bridge) | 1 | — |
| Surge voltage-Transient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

Simulation results are following.
 Explanatory notes — : simulated

VrIr[Temp]

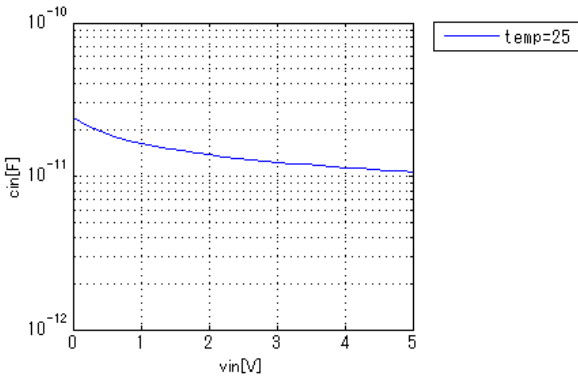


IrVr[Temp]



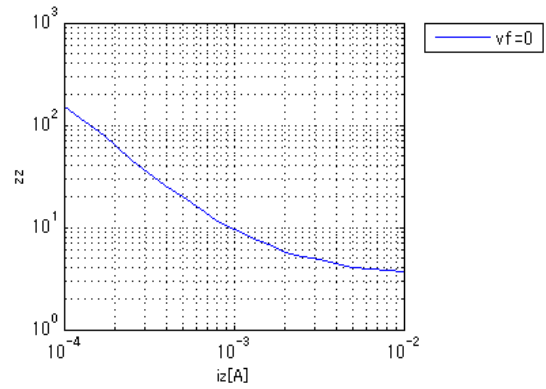
CjVr

Freq = 1000000Hz



ZzIz

$izl = 0.885377$, $izh = 1.1146236$



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