

LTspice Model

Zener Diode

Littelfuse

5KP24A



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_5KP24A_LT
Pin Assign 1:A 2:C
File List Model Library MDC_5KP24A_LT01.lib
 Model Report MDC_5KP24A_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 11/20/15
- Product name 5KP24A
- Company name Littelfuse, Inc.
- Characteristics IfV[Temp],BvTemp,IrVr(Breakdown)

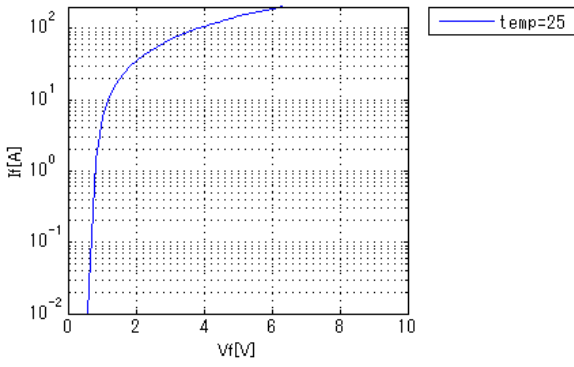
Simulation Range

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

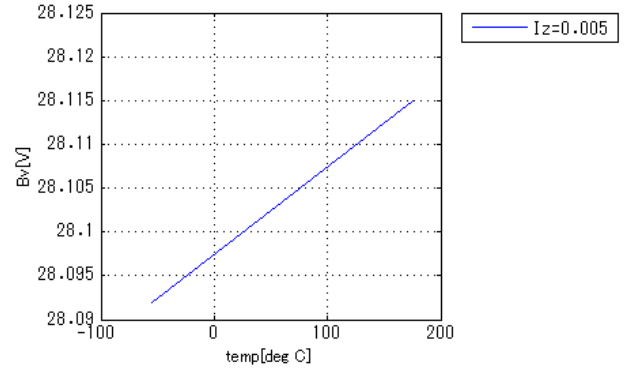
| Item | Range | | | Unit |
|-----------------|-------|----|------|-------|
| | Min. | | Max. | |
| Forward Voltage | 0 | to | 70 | V |
| Reverse Voltage | 0 | to | 56 | V |
| Temperature | -55 | to | 175 | deg C |

Simulation results are following.
 Explanatory notes — : simulated

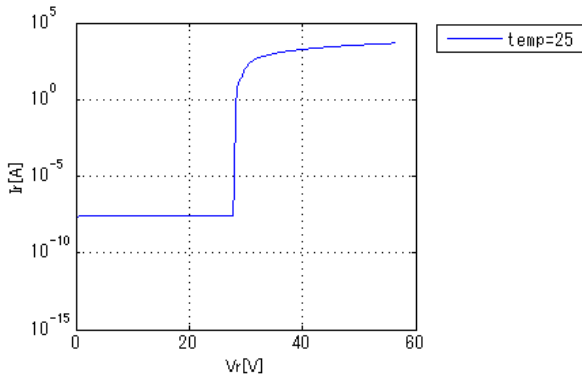
IfVf[Temp]



BvTemp



IrVr(Breakdown)



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