

LTspice Model

CRD

SEMITEC

S-101T



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_S-101T_LT
Pin Assign 1:A 2:C
File List Model Library MDC_S-101T_LT02.lib
 Model Report MDC_S-101T_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 2014.06
- Product name S-101T
- Company name SEMITEC Corporation
- Characteristics IfVf,IfTemp

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. | |
| Temperature | -40 | to | 150 | deg C |

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

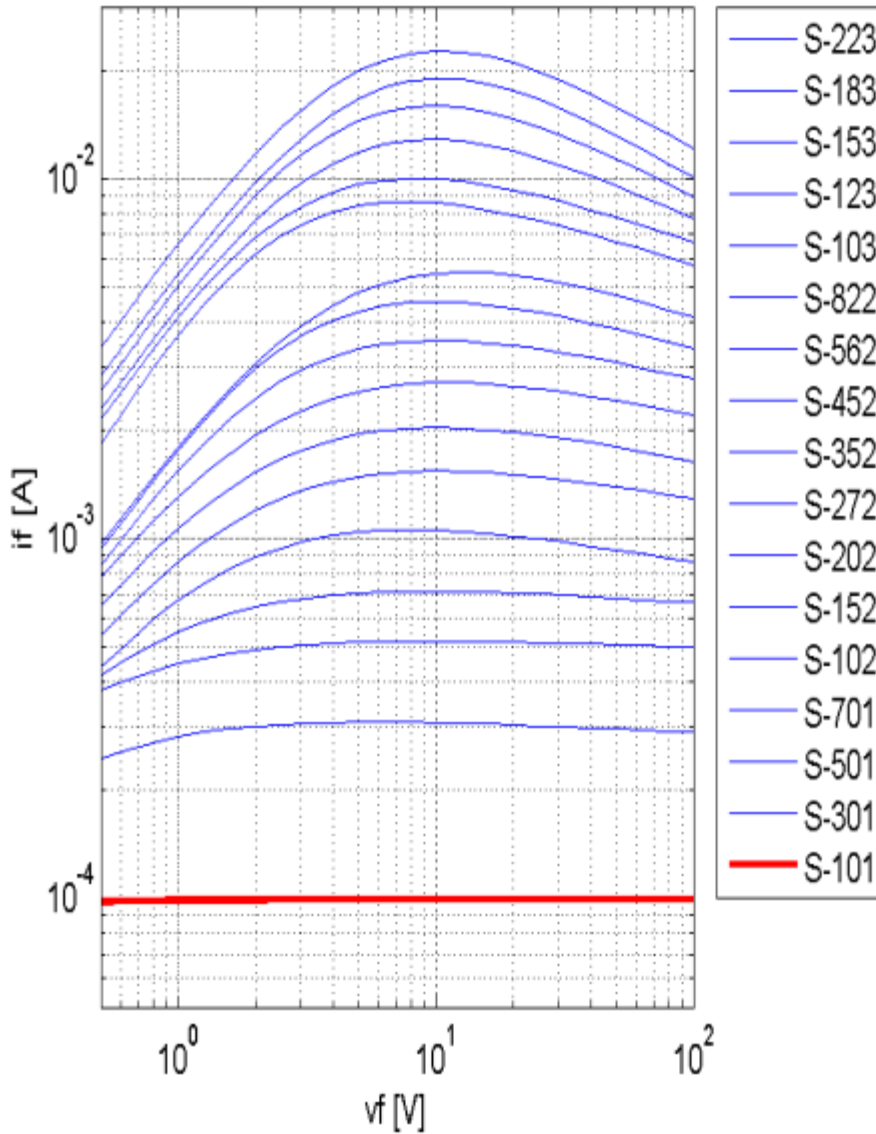
Model Functions Table
RANK=1

| 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

IfVf

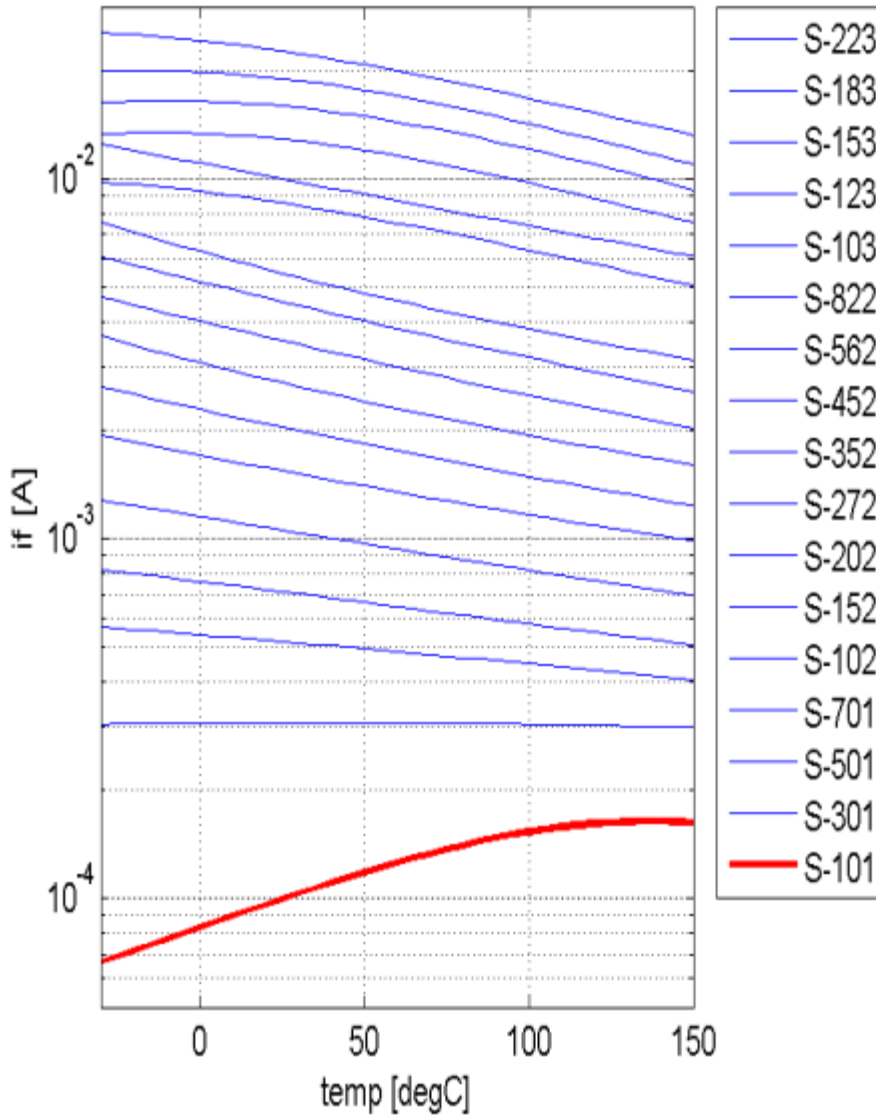
Temp = 25degC



Simulation results are following.
Explanatory notes — : simulated

IfTemp

Vf = 10V



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