

## LTspice Model CRD SEMITEC E-45226R

## **Model Information**

ModelA macro model based on general SPICE diode modelCall NameMDC\_E-45226R\_LTPin Assign1:A 2:CFile ListModel LibraryMDC\_E-45226R\_LT01.libModel ReportMDC\_E-45226R\_LT.pdf (this file)

Verified Simulator Version Note

LTspice version XVII

#### References

The information which was used for modeling is as follow:

[Data Sheet]

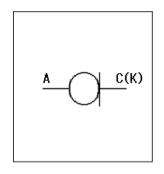
| Date/Version    |
|-----------------|
| Product name    |
| Company name    |
| Characteristics |

2014/06 E-45226R SEMITEC Corporation 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 | -30   | to | 150  | deg C |





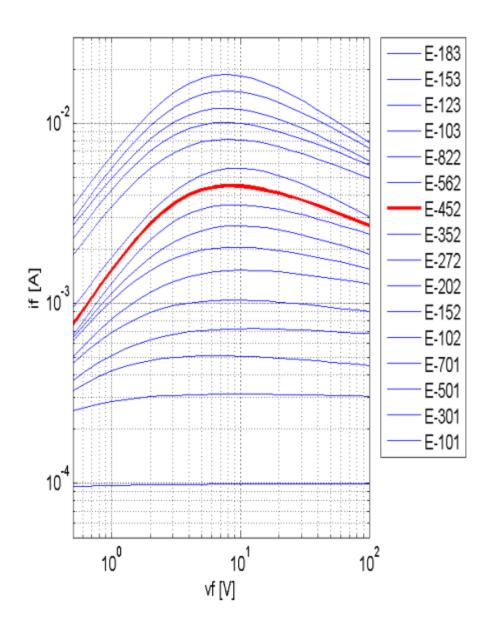
| Diode<br>Model Functions Table        | RANK=1 | O : Implemented<br>$\times$ : Not Implemented<br>— : Not applicable |
|---------------------------------------|--------|---|
| Functions                             | RANK   | Implemented   |
| IF-VF(Temp)                           | 1      | 0   |
| 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

lfVf

Temp = 25 degC



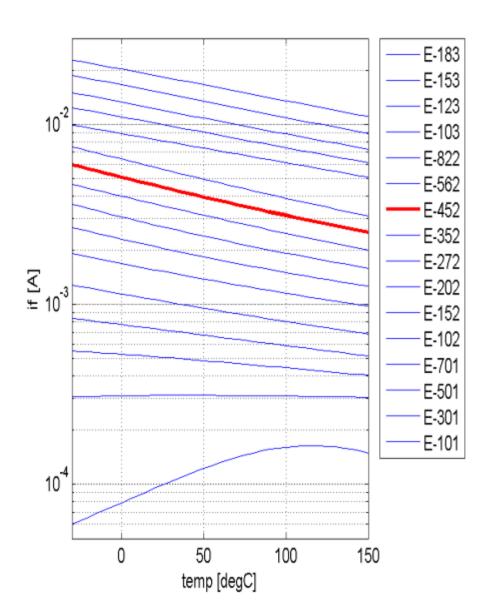
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#### Simulation results are following. Explanatory notes — : simulated

### IfTemp

Vf = 10V





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