

# LTspice Model

## CRD

## SEMITEC

## E-20252R



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_E-20252R\_LT  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_E-20252R\_LT01.lib  
 Model Report MDC\_E-20252R\_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 E-20252R
- 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 | -30   | to | 150  | deg C |

## Diode

○ : Implemented  
× : Not Implemented  
— : Not applicable

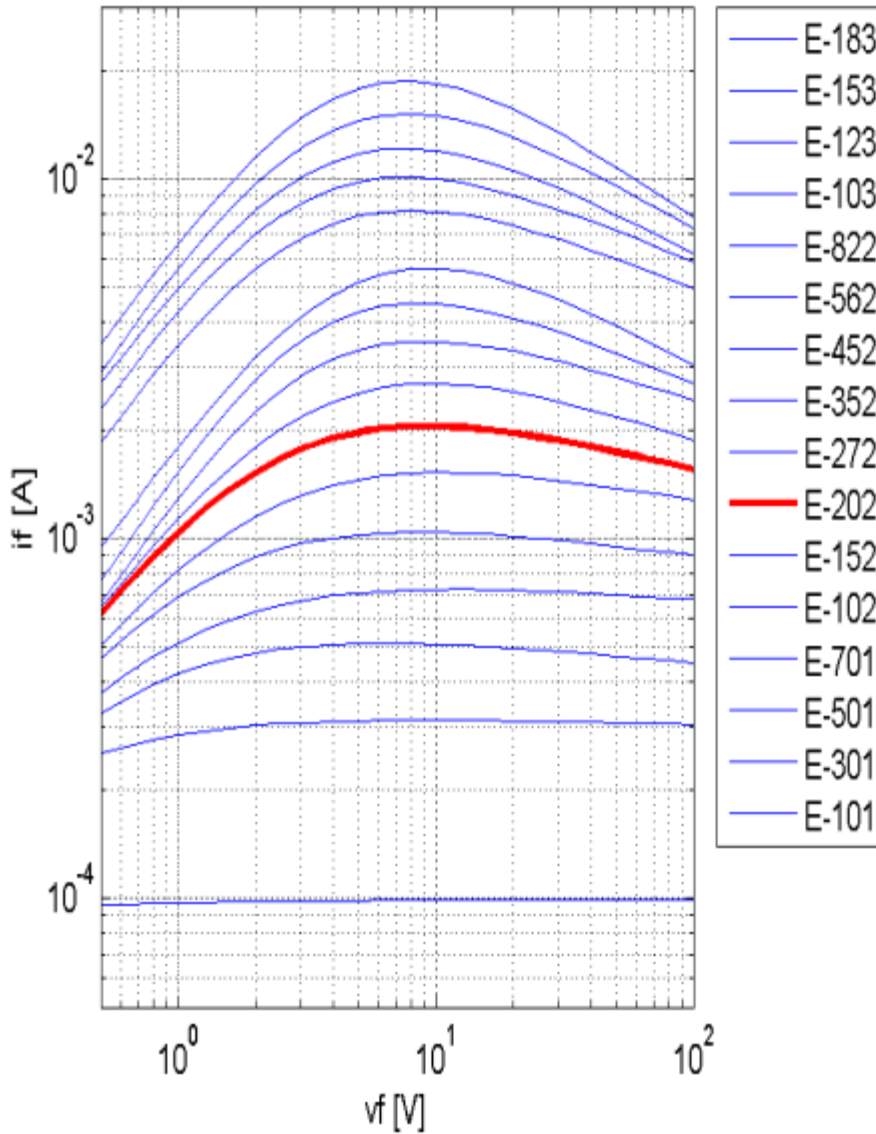
**Model Functions Table**
**RANK=1**

| 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**

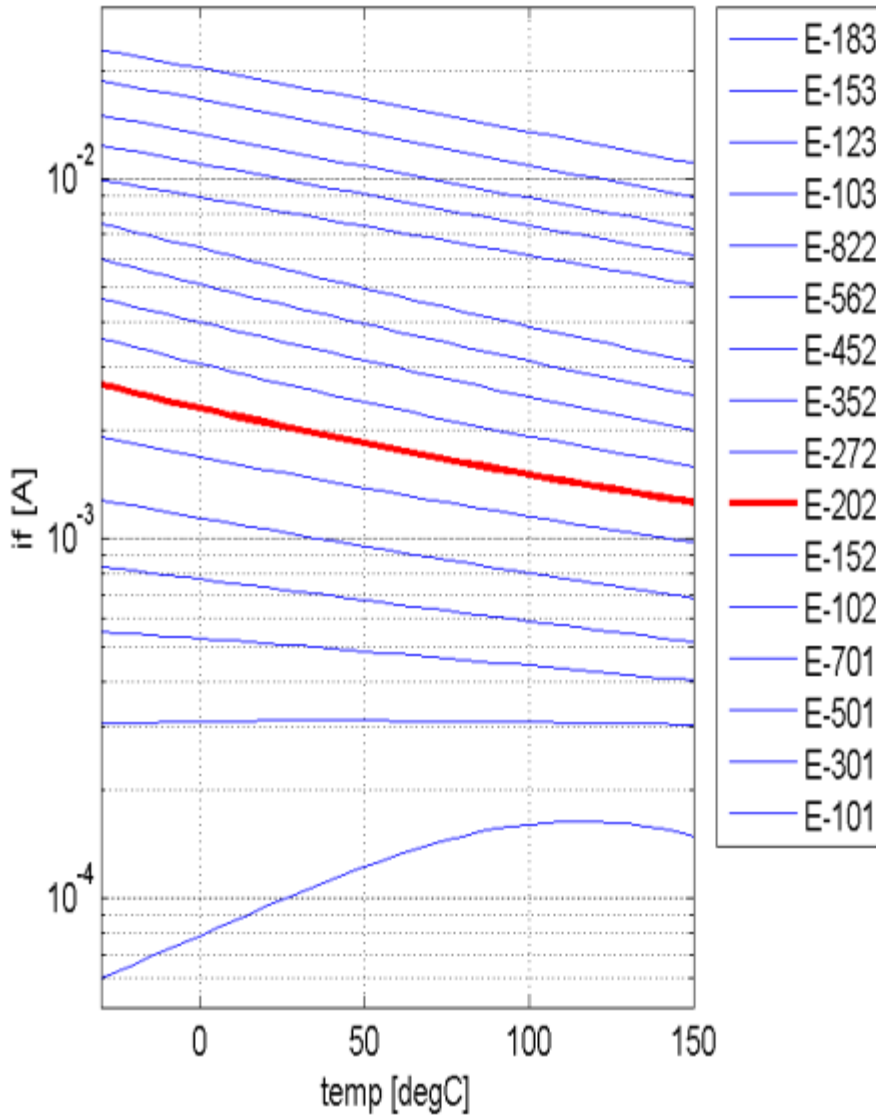
Temp = 25degC



Simulation results are following.  
Explanatory notes — : simulated

**IfTemp**

Vf = 10V



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