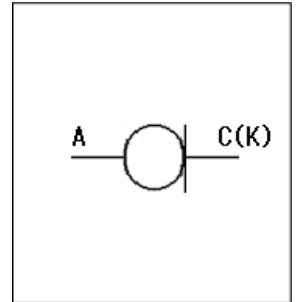


# PSpice Model

## CRD

## SEMITEC

## E-301



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_E-301\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_E-301\_PS02.lib  
 Model Report MDC\_E-301\_PS.pdf (this file)

**Verified Simulator Version** PSpice version 17.2  
**Note**

### References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2014.06
- Product name E-301
- 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

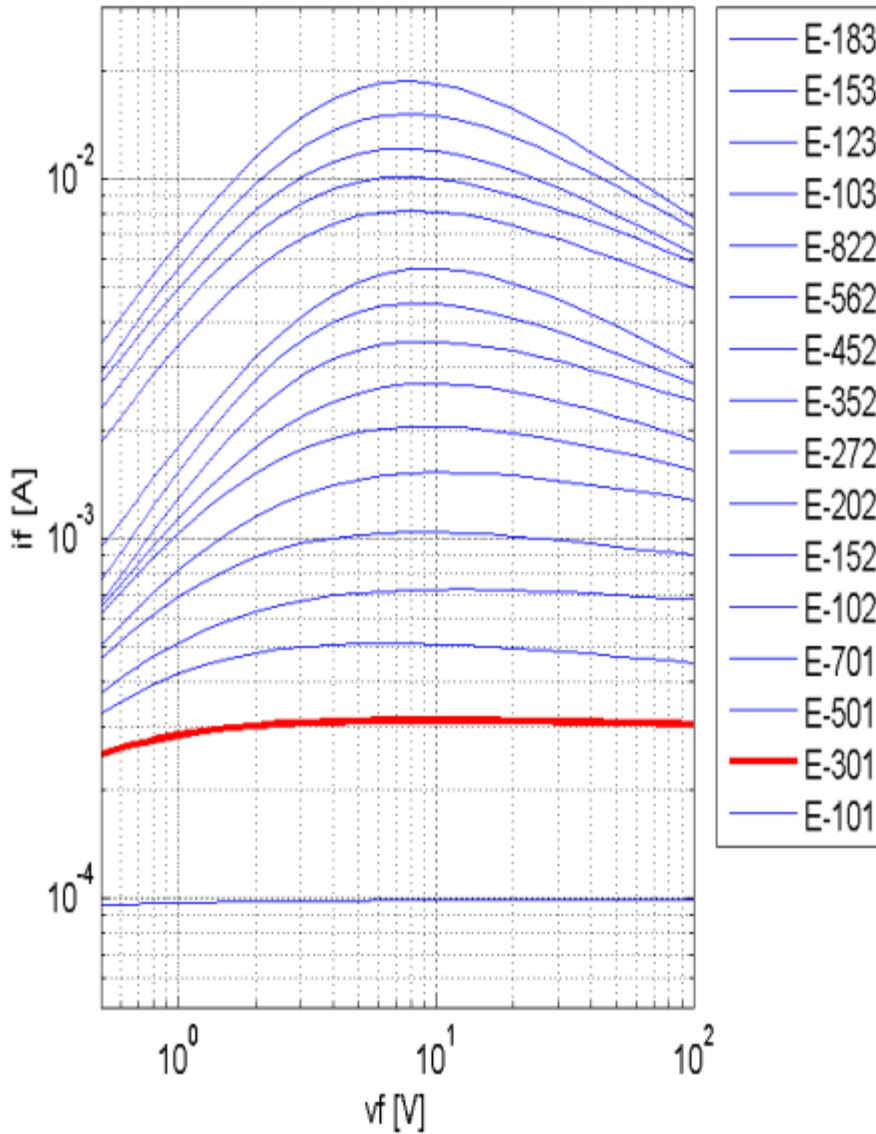
**Model Functions Table**
**RANK=1**

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**

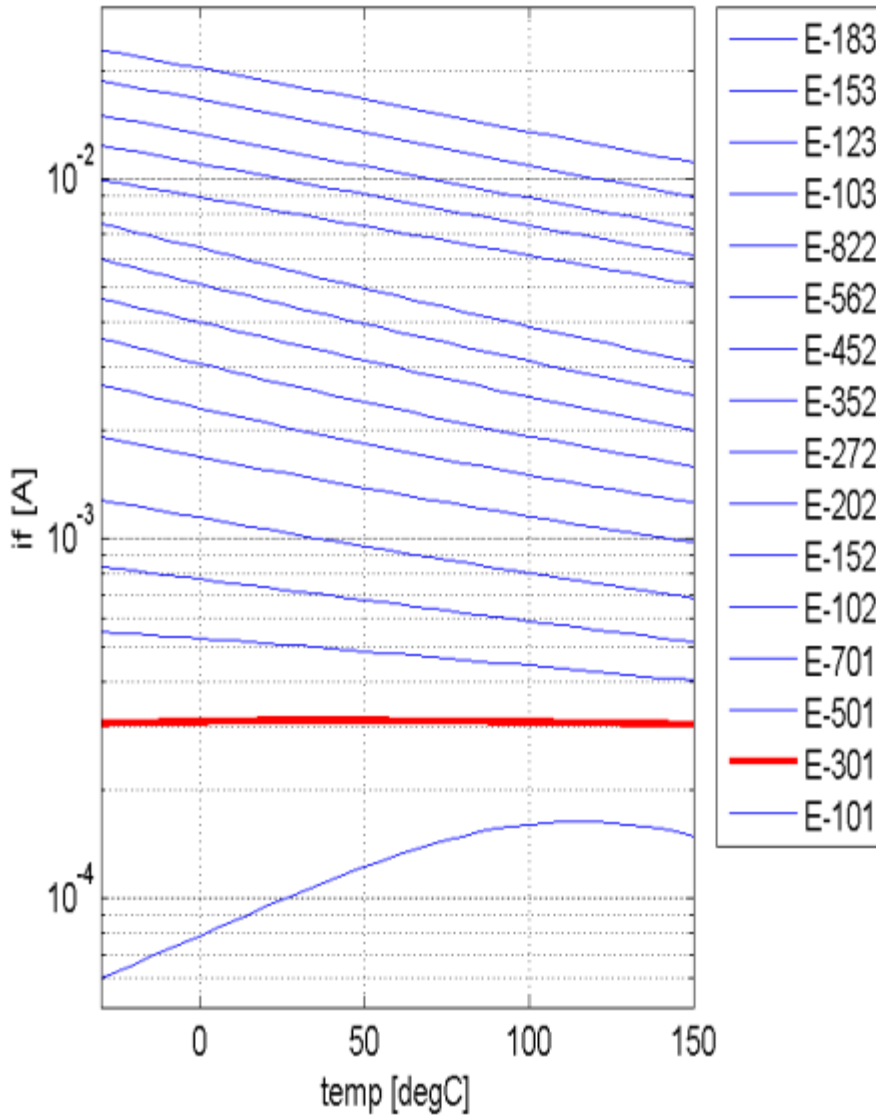
Temp = 25degC



Simulation results are following.  
Explanatory notes — : simulated

**IfTemp**

Vf = 10V



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