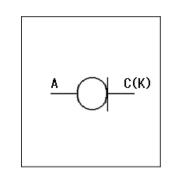


# PSpice Model CRD SEMITEC E-452



### **Model Information**

Model A macro model based on general SPICE diode model

Call Name MDC\_E-452\_PS

Pin Assign 1:A 2:C

File List Model Library MDC\_E-452\_PS02.lib

Model Report MDC\_E-452\_PS.pdf (this file)

**Verified Simulator Version** 

Note

PSpice version 17.2

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 2014.06Product name E-452

● 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



**Model Functions Table** 

## Diode

O:Implemented

× : Not Implemented

—: Not applicable

## RANK=1

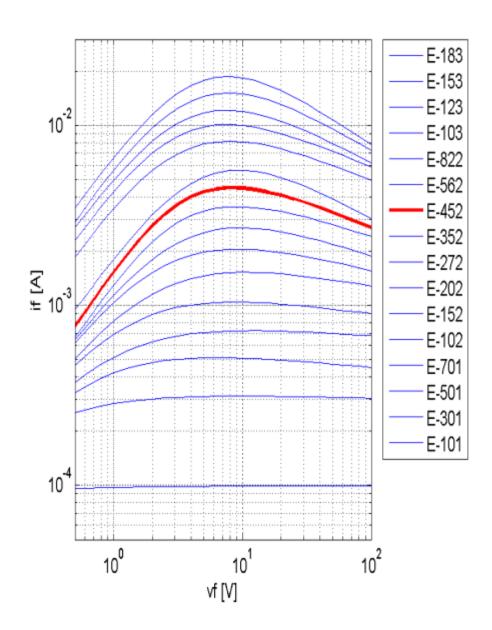
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	_
Capacitance	1	_
Reverse recovery characteristics	1	_
Zz-Iz	1	_
Rectification characteristics(Bridge)	1	_
Surge voltage-Transient	1	_



Simulation results are following. Explanatory notes — : simulated

### lfVf

Temp = 25degC

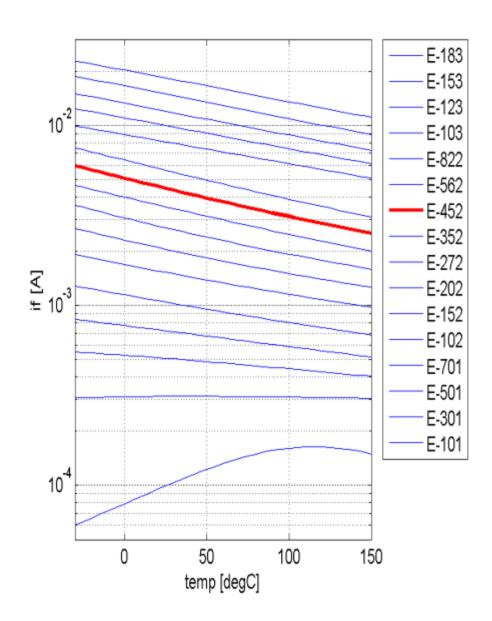




Simulation results are following. Explanatory notes — : simulated

### **IfTemp**

Vf = 10V





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