

PSpice Model

CRD

SEMITEC

E-45252Z



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_E-45252Z_PS
Pin Assign 1:A 2:C
File List Model Library MDC_E-45252Z_PS01.lib
 Model Report MDC_E-45252Z_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-45252Z
- 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.	to	Max.	
Temperature	-30	to	150	deg C

Diode

○ : Implemented
× : Not Implemented
— : Not applicable

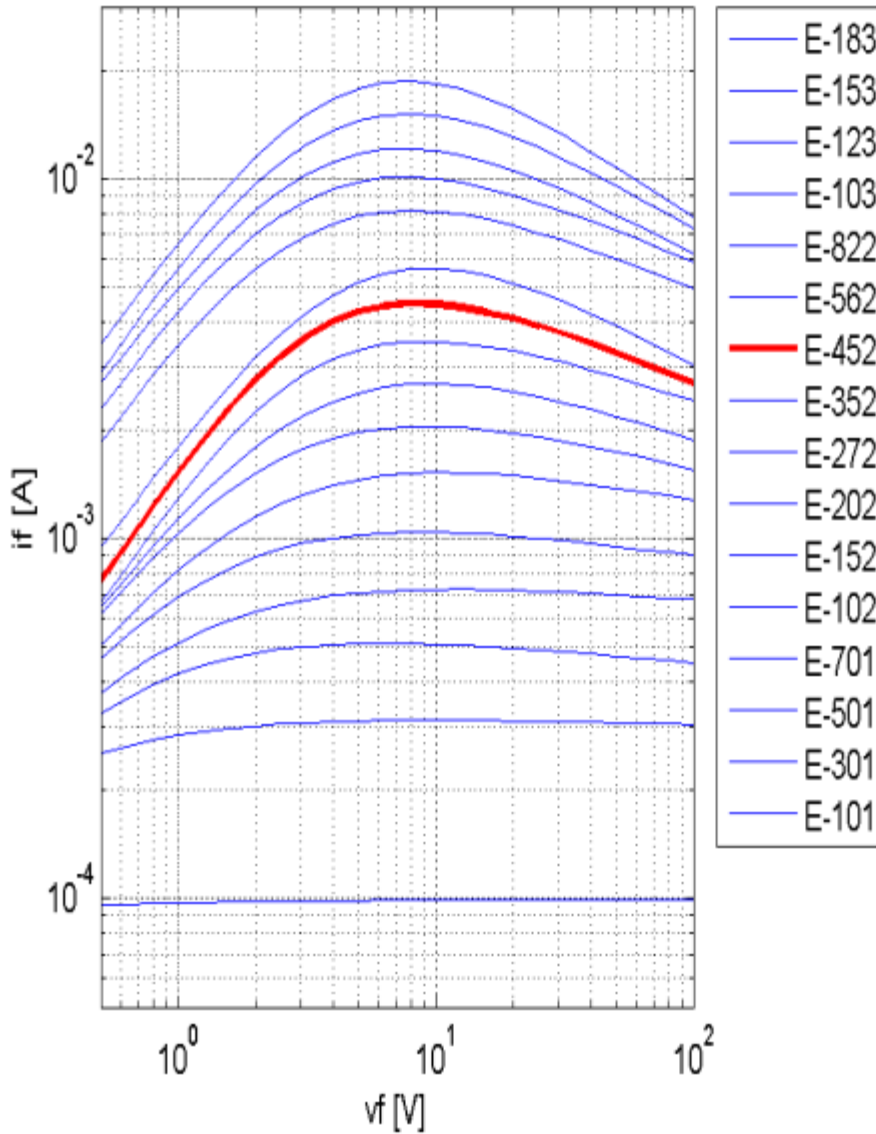
Model Functions Table
RANK=1

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

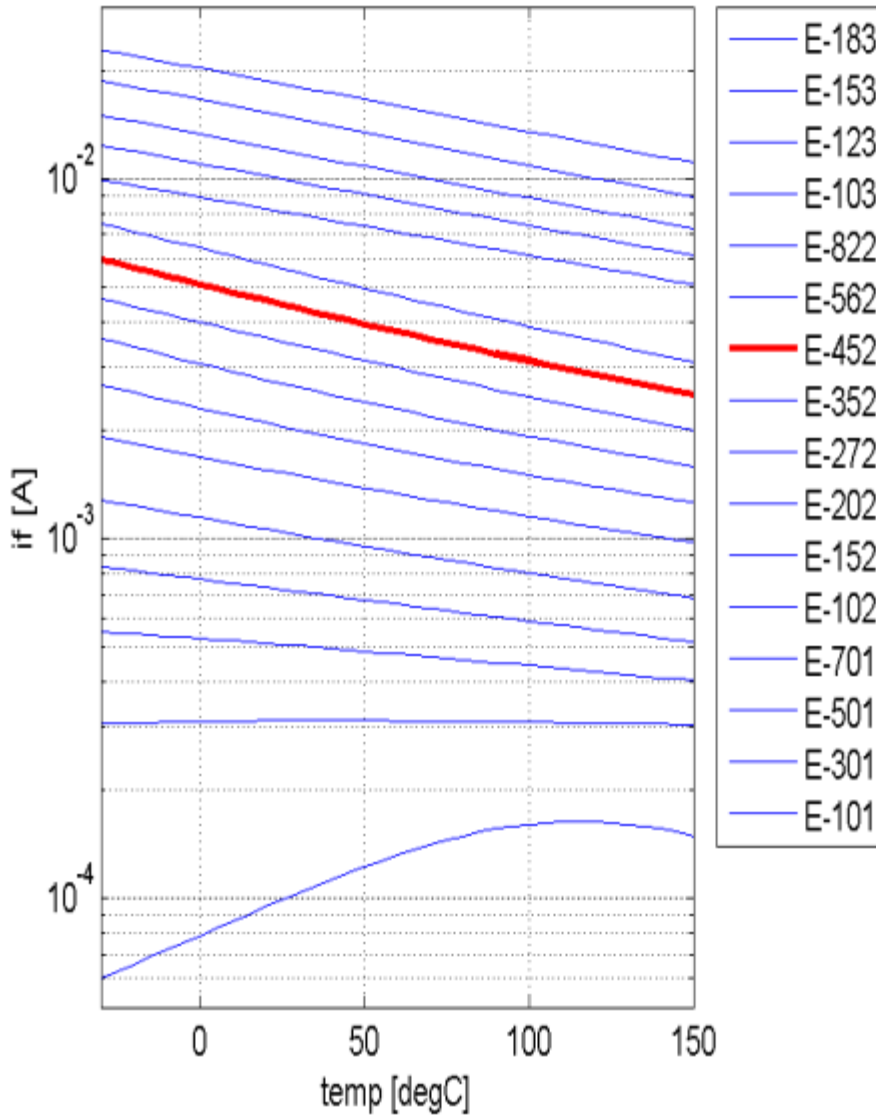
Temp = 25degC



Simulation results are following.
Explanatory notes — : simulated

IfTemp

Vf = 10V



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