

LTspice Model

CRD

SEMITEC

E-123



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_E-123_LT
Pin Assign 1:A 2:C
File List Model Library MDC_E-123_LT02.lib
 Model Report MDC_E-123_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-123
- Company name SEMITEC Corporation
- Characteristics

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

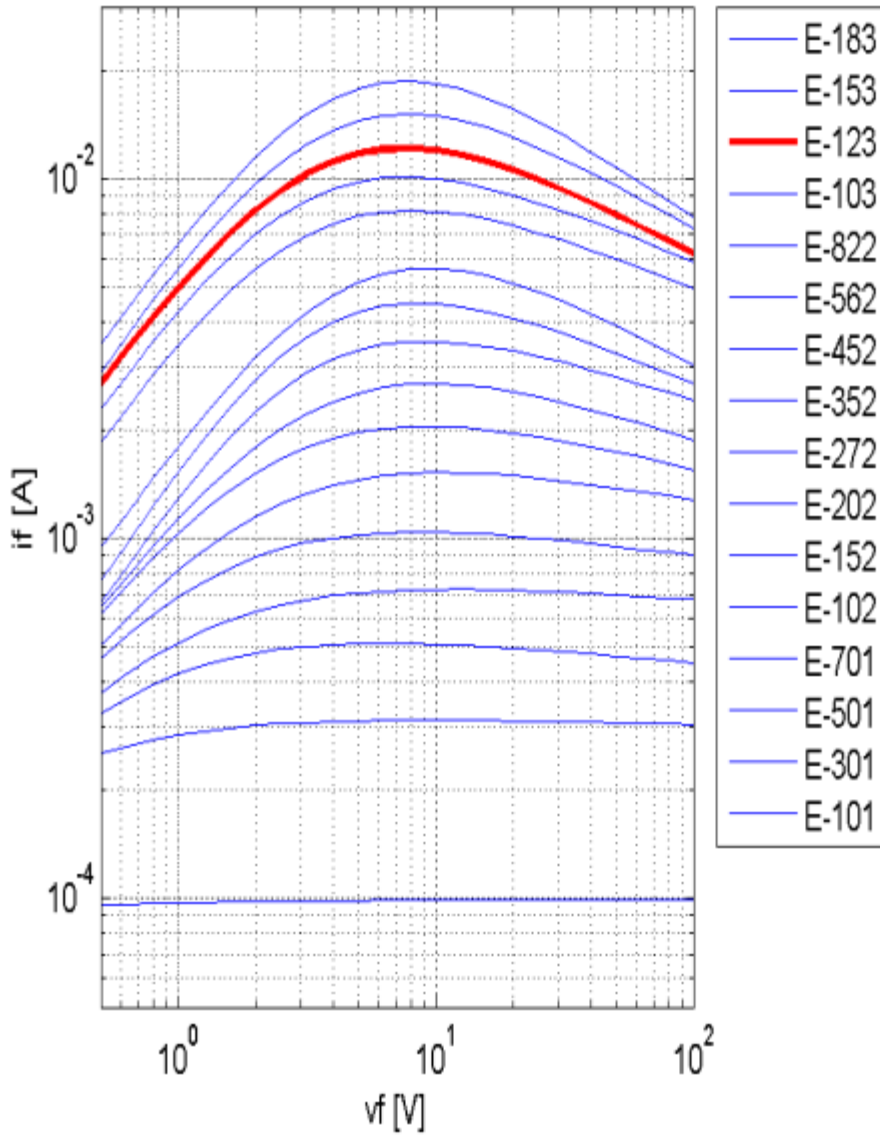
Model Functions Table
RANK=1

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

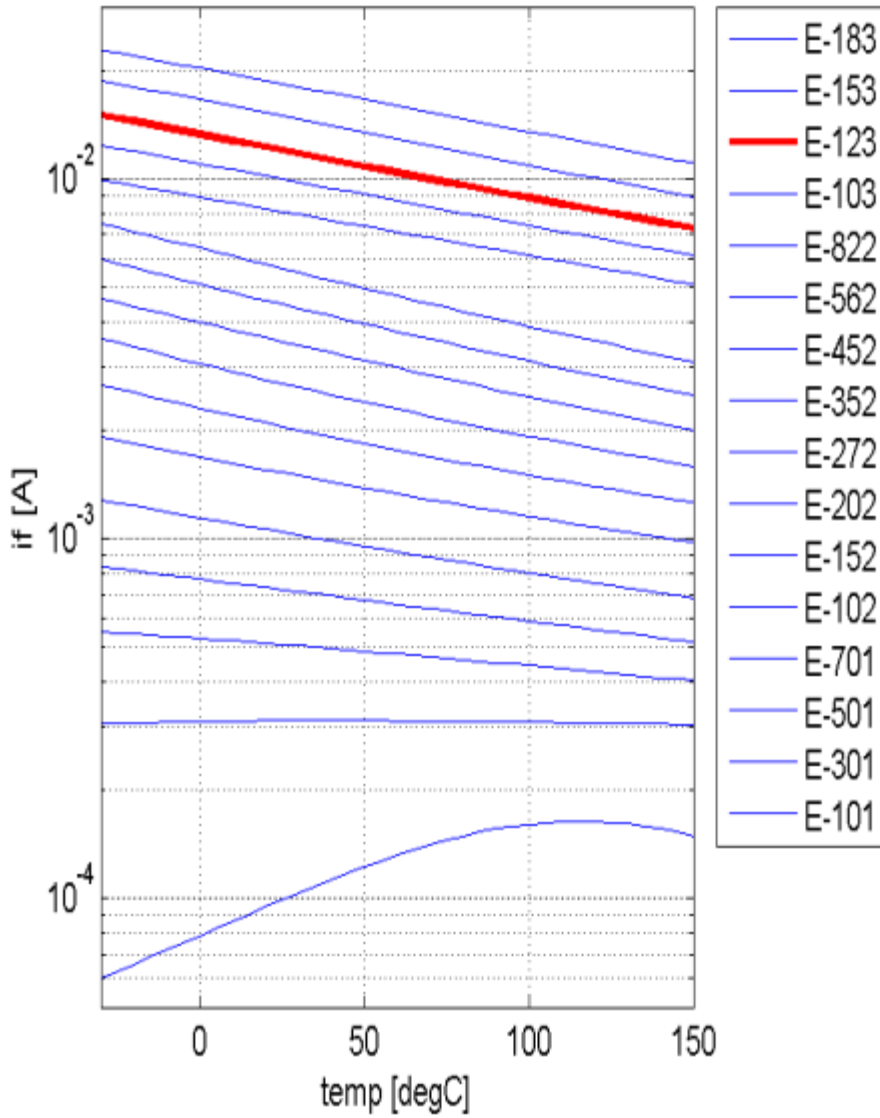
Temp = 25degC



Simulation results are following.
Explanatory notes — : simulated

IfTemp

Vf = 10V



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