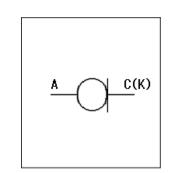


PSpice Model CRD SEMITEC E-123



Model Information

Model A macro model based on general SPICE diode model

Call Name MDC_E-123_PS

Pin Assign 1:A 2:C

File List Model Library MDC_E-123_PS02.lib

Model Report MDC_E-123_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/VersionProduct nameE-123

● 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

O:Implemented

× : Not Implemented

—: Not applicable

Model Functions Table RANK=1

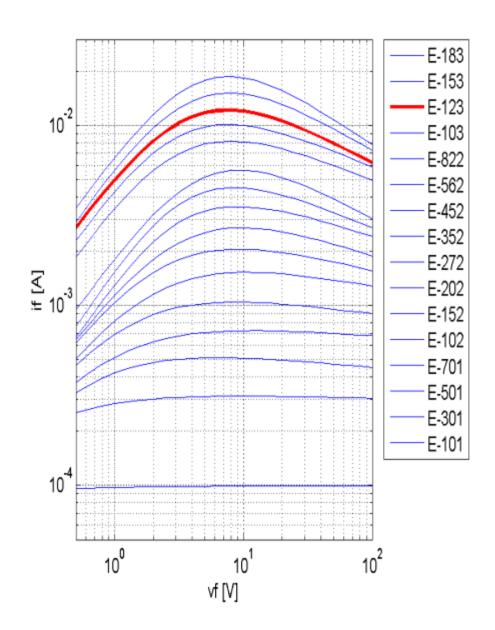
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	_
Capacitance	1	
Reverse recovery characteristics	1	_
Zz-Iz	1	_
Rectification characteristics(Bridge)	1	_
Surge voltage-Transient	1	_



Simulation results are following. Explanatory notes — : simulated

lfVf

Temp = 25degC

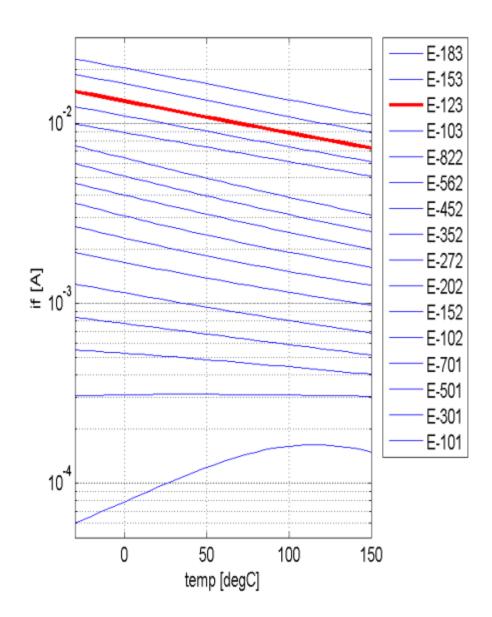




Simulation results are following. Explanatory notes — : simulated

IfTemp

Vf = 10V





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MoDeCH Inc.

Head Office

Location: 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:http://www.modech.com/en/