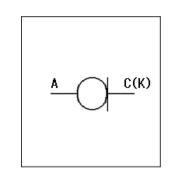


## PSpice Model CRD SEMITEC E-50152R



### **Model Information**

Model A macro model based on general SPICE diode model

Call Name MDC\_E-50152R\_PS

Pin Assign 1:A 2:C

File List Model Library MDC\_E-50152R\_PS01.lib

Model Report MDC\_E-50152R\_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/VersionProduct name2014/06E-50152R

●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

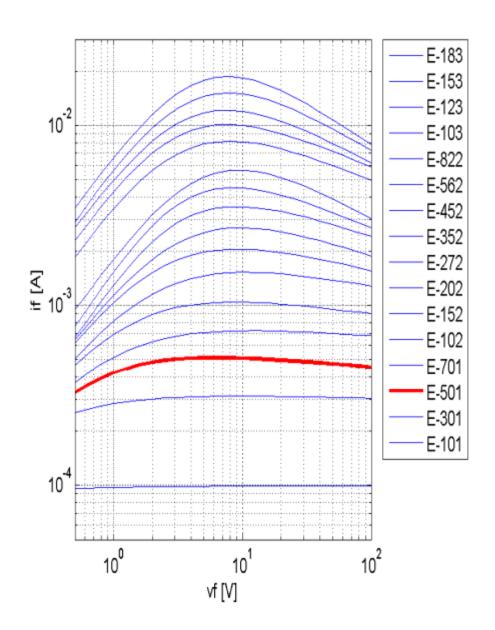
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	
Capacitance	1	1
Reverse recovery characteristics	1	
Zz-Iz	1	_
Rectification characteristics(Bridge)	1	_
Surge voltage-Transient	1	_



Simulation results are following. Explanatory notes — : simulated

### lfVf

Temp = 25degC

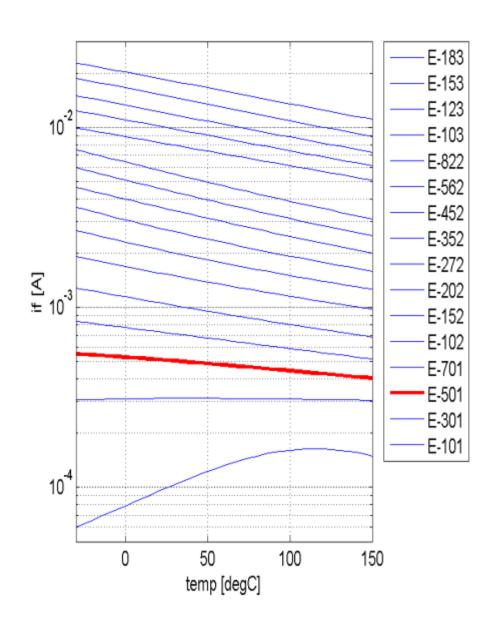




Simulation results are following. Explanatory notes — : simulated

### **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/