

# PSpice Model CRD SEMITEC E-501

## **Model Information**

Model<br/>Call NameA macro model based on general SPICE diode modelMDC\_E-501\_PSMDC\_E-501\_PSPin Assign1:A 2:CFile ListModel Library<br/>Model ReportMDC\_E-501\_PS02.lib<br/>MDC\_E-501\_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]

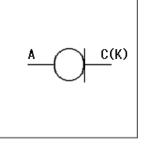
Date/Version
Product name
Company name
Characteristics

2014.06 E-501 SEMITEC Corporation 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





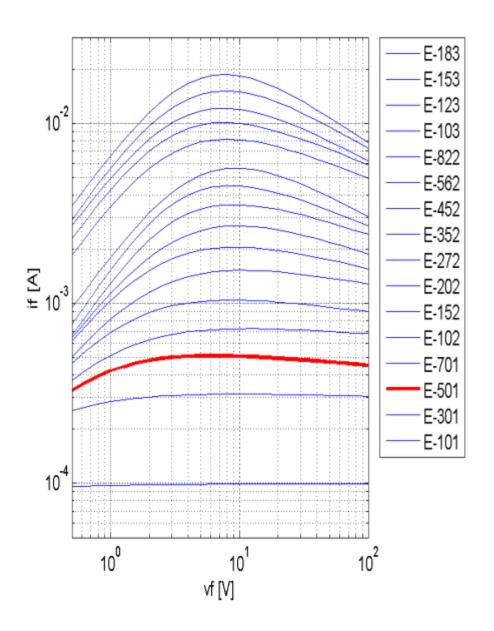
Diode Model Functions Table	RANK=1	O : Implemented × : Not Implemented — : Not applicable
Functions	RANK	Implemented
IF-VF(Temp)	1	0
IR-VR(Temp)	1	—
Capacitance	1	—
Reverse recovery characteristics	1	—
Zz-Iz	1	—
Rectification characteristics(Bridge)	1	—
Surge voltage-Transient	1	—



# Simulation results are following. Explanatory notes -: simulated

lfVf

Temp = 25 degC



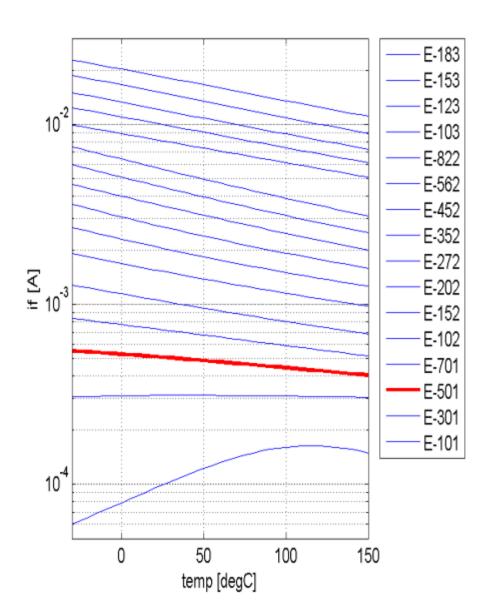
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#### Simulation results are following. Explanatory notes — : simulated

### IfTemp

Vf = 10V





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