

PSpice Model

ESD Protection Diode

HITACHI

V17E



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_V17E_PS
Pin Assign 1:A 2:C
File List Model Library MDC_V17E_PS01.lib
 Model Report MDC_V17E_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version N/A
- Product name V17E
- Company name Hitachi Power Semiconductor Device, Ltd.
- Characteristics IfVf[Temp],IrrVr(Breakdown)

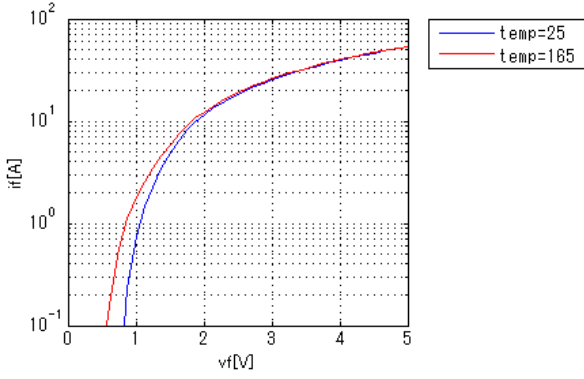
Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

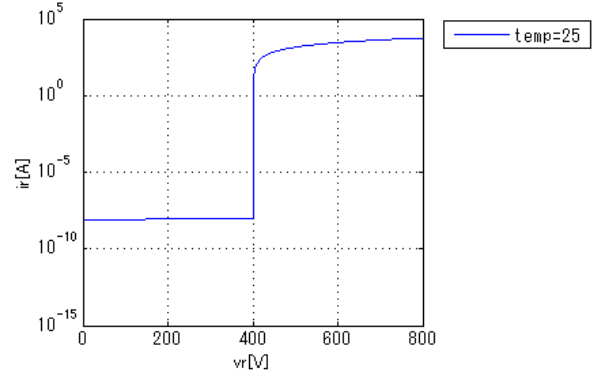
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	50	V
Reverse Voltage	0	to	800	V
Temperature	-40	to	165	deg C

Simulation results are following.
Explanatory notes — : simulated

IfVf[Temp]



IrVr(Breakdown)



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