

PSpice Model

ESD Protection Diode

VISHAY

SMA6J20AHM3



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_SMA6J20AHM3_PS
Pin Assign 1:A 2:C
File List Model Library MDC_SMA6J20AHM3_PS01.lib
 Model Report MDC_SMA6J20AHM3_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 13-May-14
- Product name SMA6J20AHM3
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],BvTemp,IrVr(Breakdown)

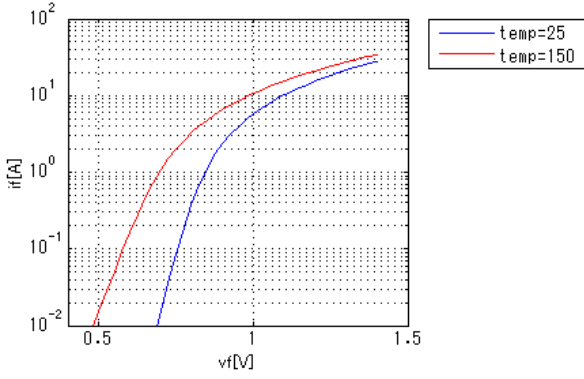
Simulation Range

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

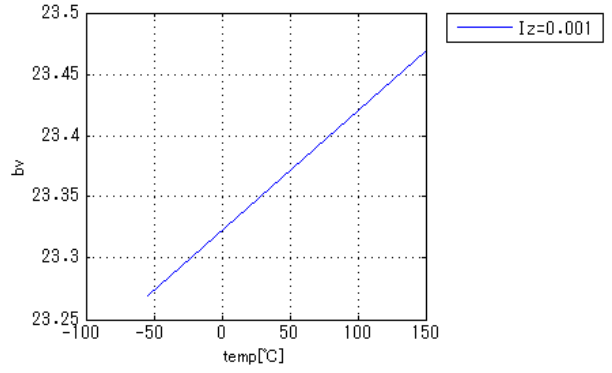
| Item | Range | | | Unit |
|-----------------|-------|----|------|-------|
| | Min. | | Max. | |
| Forward Voltage | 0 | to | 14 | V |
| Reverse Voltage | 0 | to | 46.7 | V |
| Temperature | -55 | to | 150 | deg C |

Simulation results are following.
 Explanatory notes — : simulated

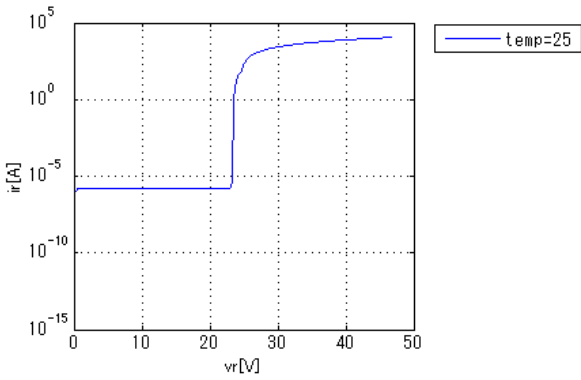
IfVf[Temp]



BvTemp



IrVr(Breakdown)



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