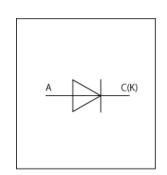


# PSpice Model ESD Protection Diode VISHAY SMBJ18CAHE3



## **Model Information**

Model A macro model based on general SPICE diode model

Call Name MDC\_SMBJ18CAHE3\_PS

Pin Assign 1:A 2:C

File List Model Library MDC\_SMBJ18CAHE3\_PS01.lib

Model Report MDC\_SMBJ18CAHE3\_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 06-Feb-14Product name SMBJ18CAHE3

Company name Vishay Intertechnology, Inc.

Characteristics IrVr(Breakdown)

#### Simulation Range

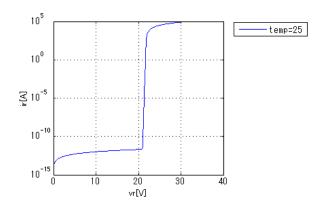
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

| Item            | Range |    |      | Unit  |
|-----------------|-------|----|------|-------|
|                 | Min.  |    | Max. |       |
| Reverse Voltage | 0     | to | 42.1 | V     |
| Temperature     | -55   | to | 150  | deg C |



Simulation results are following. Explanatory notes — : simulated

## IrVr(Breakdown)





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