

# PSpice Model

## ESD Protection Diode

### VISHAY

### SMA5J13CAHE3



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SMA5J13CAHE3\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SMA5J13CAHE3\_PS01.lib  
 Model Report MDC\_SMA5J13CAHE3\_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-Dec-13
- Product name SMA5J13CAHE3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr(Breakdown)

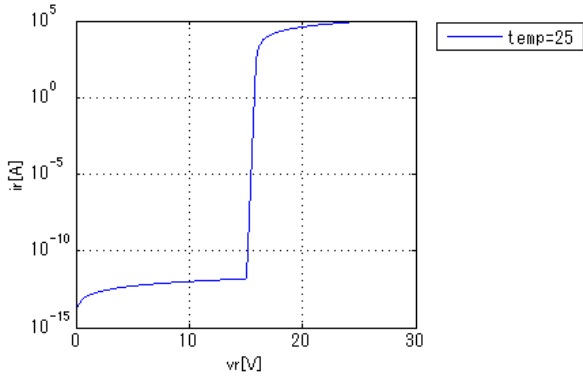
### Simulation Range

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	30.3	V
Temperature	-55	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**IrVr(Breakdown)**



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