

# PSpice Model

## ESD Protection Diode

### VISHAY

### SM5S13ATHE3



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SM5S13ATHE3\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SM5S13ATHE3\_PS01.lib  
 Model Report MDC\_SM5S13ATHE3\_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 03-Jul-15
- Product name SM5S13ATHE3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr(Breakdown)

### Simulation Range

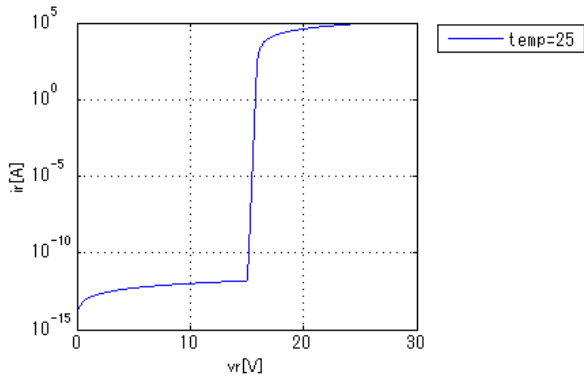
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	30.3	V
Temperature	-55	to	175	deg C

Simulation results are following.

Explanatory notes — : simulated

### IrVr(Breakdown)



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