

# PSpice Model

## ESD Protection Diode

### VISHAY

### SMAJ48AHE3



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SMAJ48AHE3\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SMAJ48AHE3\_PS01.lib  
 Model Report MDC\_SMAJ48AHE3\_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 09-Dec-13
- Product name SMAJ48AHE3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr(Breakdown)

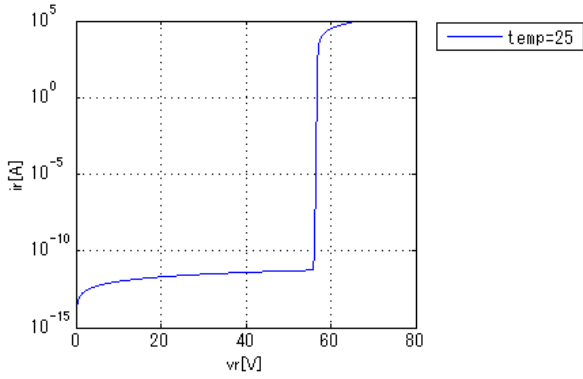
### Simulation Range

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 | 112.2 | V     |
| Temperature     | -55   | to | 150   | deg C |

Simulation results are following.  
Explanatory notes — : simulated

**IrVr(Breakdown)**



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