

# PSpice Model

## ESD Protection Diode

### VISHAY

### 1.5SMC18AHE3



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_1\_5SMC18AHE3\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_1\_5SMC18AHE3\_PS01.lib  
 Model Report MDC\_1\_5SMC18AHE3\_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]

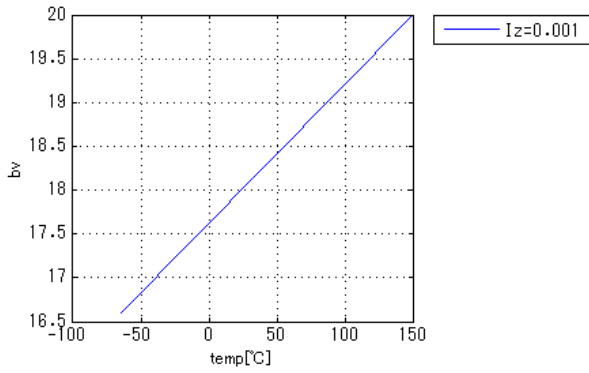
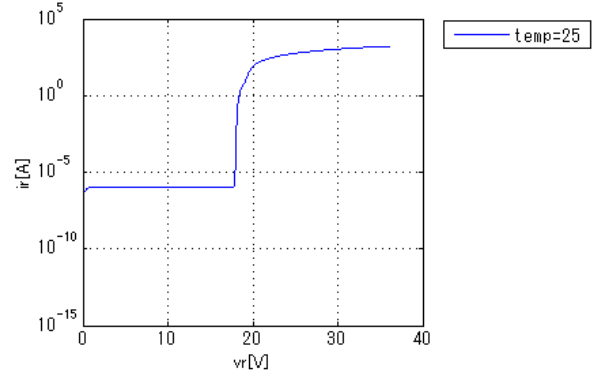
- Date/Version 20-Dec-13
- Product name 1.5SMC18AHE3
- Company name Vishay Intertechnology, Inc.
- Characteristics BvTemp,IrVr(Breakdown)

#### 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. |       |
| Reverse Voltage | 0     | to | 36   | V     |
| Temperature     | -65   | to | 150  | deg C |

Simulation results are following.  
Explanatory notes — : simulated

**BvTemp****IrVr(Breakdown)**

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