

# LTspice Model

## ESD Protection Diode

### VISHAY

### SMCJ51AHE3



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SMCJ51AHE3\_LT  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SMCJ51AHE3\_LT01.lib  
 Model Report MDC\_SMCJ51AHE3\_LT.pdf (this file)

**Verified Simulator Version** LTspice version XVII  
**Note**

### References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 10-Dec-13
- Product name SMCJ51AHE3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr(Breakdown)

### Simulation Range

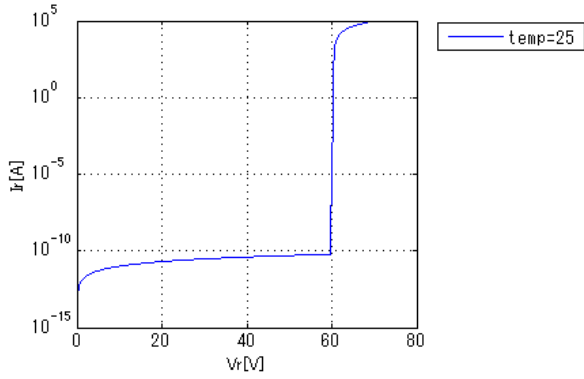
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	119	V
Temperature	-55	to	150	deg C

Simulation results are following.

Explanatory notes — : simulated

### IrVr(Breakdown)



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