

# LTspice Model

## ESD Protection Diode

### VISHAY

### SMC3K75CAHM3



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SMC3K75CAHM3\_LT  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SMC3K75CAHM3\_LT01.lib  
 Model Report MDC\_SMC3K75CAHM3\_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 22-Sep-14
- Product name SMC3K75CAHM3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr(Breakdown)

### Simulation Range

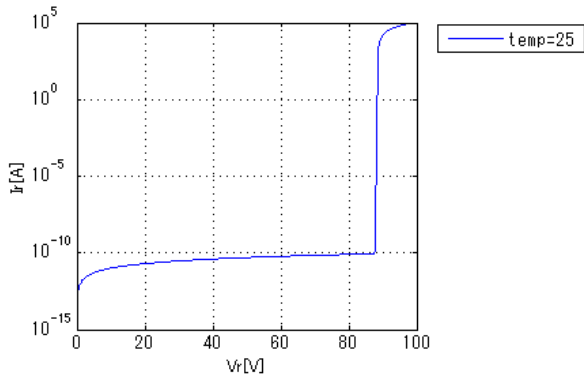
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.	to	Max.	
Reverse Voltage	0	to	175	V
Temperature	-55	to	150	deg C

Simulation results are following.

Explanatory notes — : simulated

### IrVr(Breakdown)



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