

LTspice Model

ESD Protection Diode

VISHAY

SMC3K45CAHM3



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_SMC3K45CAHM3_LT
Pin Assign 1:A 2:C
File List Model Library MDC_SMC3K45CAHM3_LT01.lib
 Model Report MDC_SMC3K45CAHM3_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 SMC3K45CAHM3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr(Breakdown)

Simulation Range

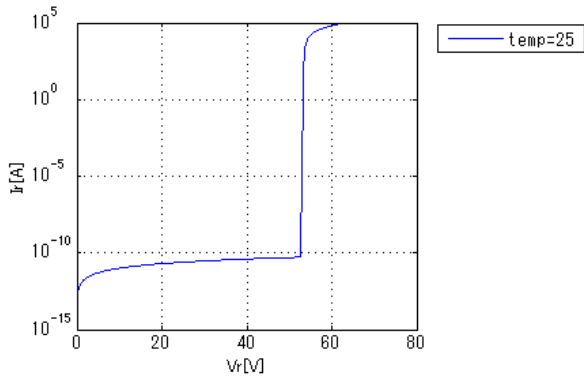
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	105	V
Temperature	-55	to	150	deg C

Simulation results are following.

Explanatory notes — : simulated

IrVr(Breakdown)



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