

LTspice Model

ESD Protection Diode

VISHAY

SM5A27THE3



Model Information

Model A macro model based on general SPICE diode model
Call Name MDC_SM5A27THE3_LT
Pin Assign 1:A 2:C
File List Model Library MDC_SM5A27THE3_LT01.lib
 Model Report MDC_SM5A27THE3_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 24-Mar-15
- Product name SM5A27THE3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr[Temp],IfVf[Temp],IrVr(Breakdown)

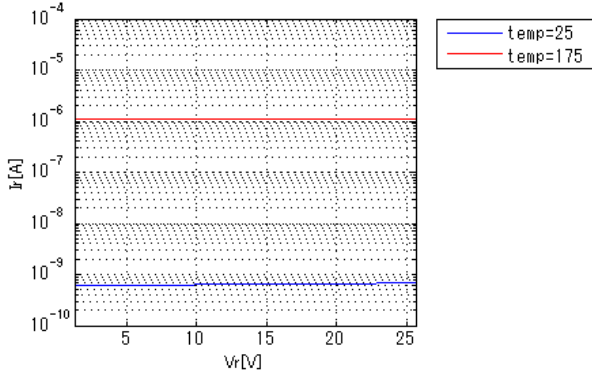
Simulation Range

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

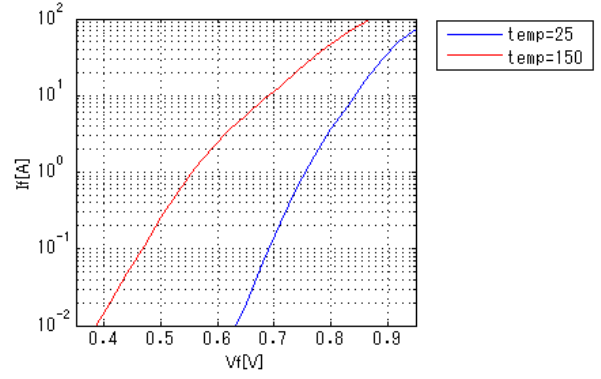
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	10	V
Reverse Voltage	0	to	54	V
Temperature	-55	to	175	deg C

Simulation results are following.
 Explanatory notes — : simulated

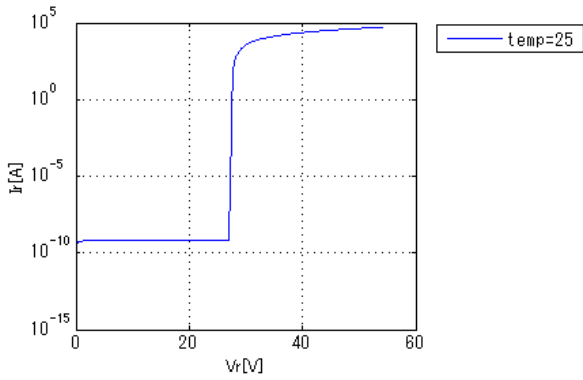
IrVr[Temp]



IfVf[Temp]



IrVr(Breakdown)



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