

# PSpice Model

## ESD Protection Diode

### VISHAY

### SMA6J18AHM3



### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SMA6J18AHM3\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SMA6J18AHM3\_PS01.lib  
 Model Report MDC\_SMA6J18AHM3\_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 13-May-14
- Product name SMA6J18AHM3
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],Irr(Breakdown)

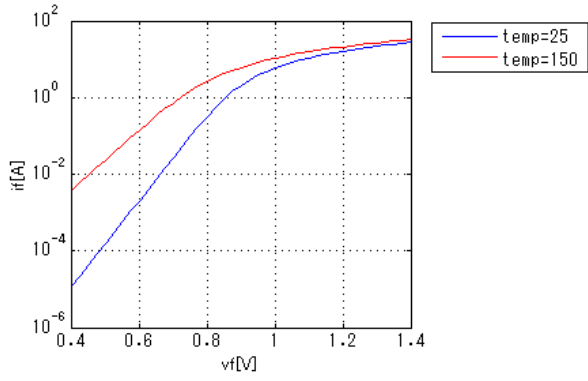
### Simulation Range

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

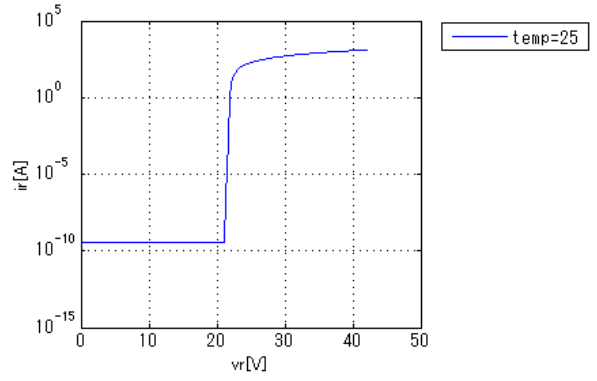
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	14	V
Reverse Voltage	0	to	42.1	V
Temperature	-55	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**



**IrVr(Breakdown)**



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