

# **PSpice Model ESD** Protection Diode TAIWAN SEMICONDUCTOR SMF24A

## **Model Information**

Model A macro model based on general SPICE diode model Call Name MDC SMF24A PS Pin Assign 1:A 2:C File List Model Library MDC\_SMF24A\_PS01.lib Model Report MDC\_SMF24A\_PS.pdf (this file)

**Verified Simulator Version** Note

PSpice version 17.2

#### References

The information which was used for modeling is as follow:

Characteristics

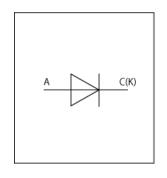
[Data Sheet] Date/Version Product name

Version:C1810 SMF24A Company name Taiwan Semiconductor Co., Ltd. IrVr[Temp],CjVr,Surge Waveform

#### Simulation Range

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

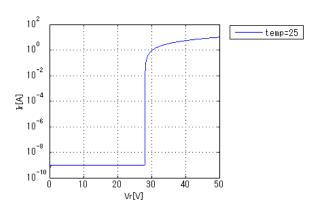
Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	56	V
Temperature	-55	to	175	deg C





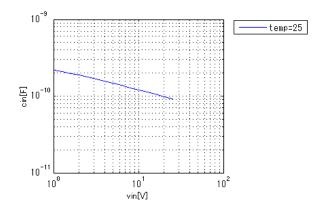
# Simulation results are following. Explanatory notes -: simulated

### IrVr[Temp]

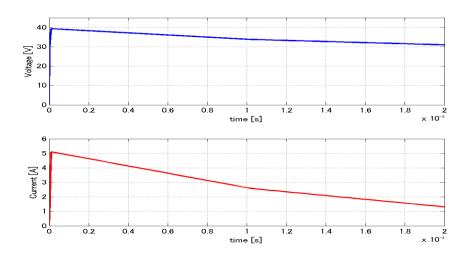


## CjVr

Freq. = 1MHz



### Surge Waveform





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Head Office Location: Taiju-Seimei-Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan Tel:+81-42-656-3360 E-Mail:model-on-support@modech.co.jp URL:http://www.modech.com/en/