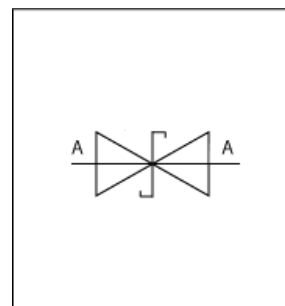


# PSpice Model

## ESD Protection Diode

### STM

### SM6T39CAY



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SM6T39CAY\_PS  
**Pin Assign** 1:A 2:A  
**File List** Model Library MDC\_SM6T39CAY\_PS01.lib  
 Model Report MDC\_SM6T39CAY\_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 Unknown
- Product name SM6T39CAY
- Company name STMicroelectronics N.V.
- Characteristics IrVr[Temp],CjVr,IrVr(Breakdown)

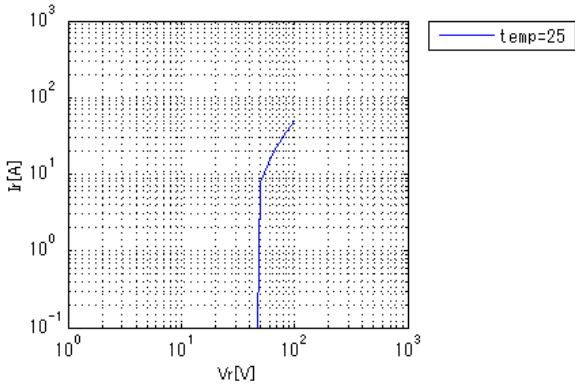
#### Simulation Range

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	78	V
Temperature	-65	to	150	deg C

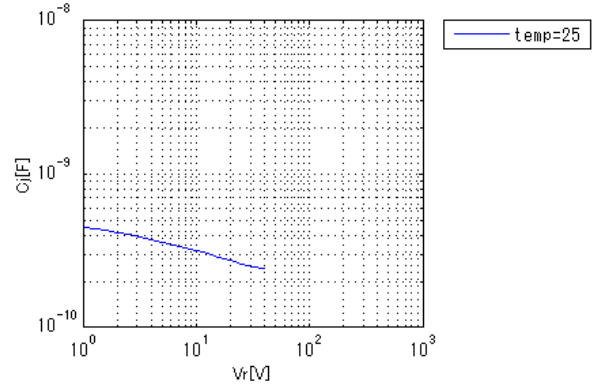
Simulation results are following.  
 Explanatory notes — : simulated

**IrVr[Temp]**

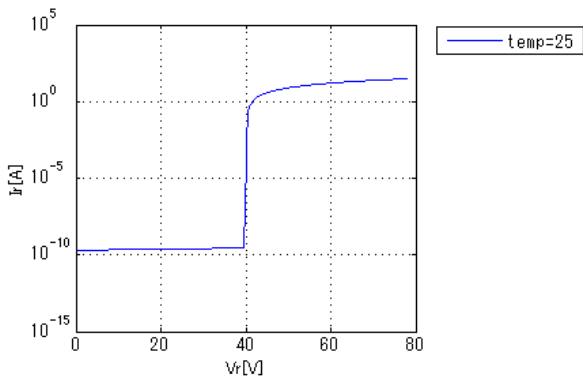


**CjVr**

Freq. = 1MHz



**IrVr(Breakdown)**



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