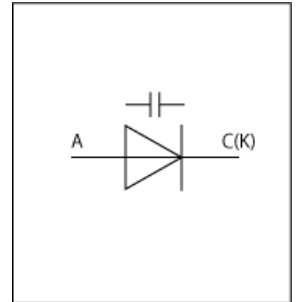


# PSpice Model

## Variable Capacitance Diode

### TOSHIBA

### 1SV280



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_1SV280\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_1SV280\_PS01.lib  
 Model Report MDC\_1SV280\_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 2014-03-01
- Product name 1SV280
- Company name Toshiba Corporation
- Characteristics IrVr[Temp],CjVr

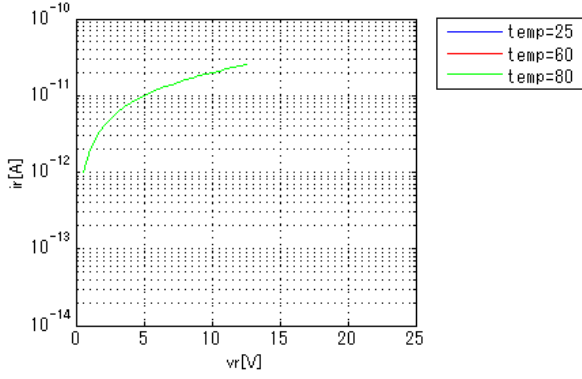
#### Simulation Range

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 | 30   | V     |
| Temperature     | -55   | to | 125  | deg C |

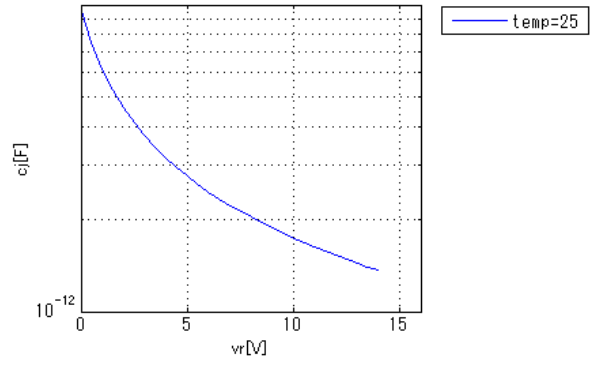
Simulation results are following.  
 Explanatory notes — : simulated

**IrVr[Temp]**



**CjVr**

Freq. = 1MHz



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MoDeCH Inc.

Head Office

Location: Mitsuseimei 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](mailto:model-on-support@modech.co.jp)

URL:<http://www.modech.com/en/>