

# PSpice Model

## Switching Diode

### RENESAS

### 1S2076A



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_1S2076A\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_1S2076A\_PS01.lib  
 Model Report MDC\_1S2076A\_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 Rev.7.00 2005.03.16
- Product name 1S2076A
- Company name Renesas Electronics Corporation
- Characteristics IfVf[Temp],IrrVr[Temp],CjVr

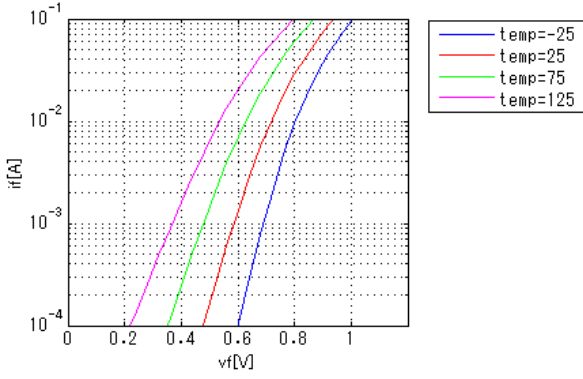
#### Simulation Range

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

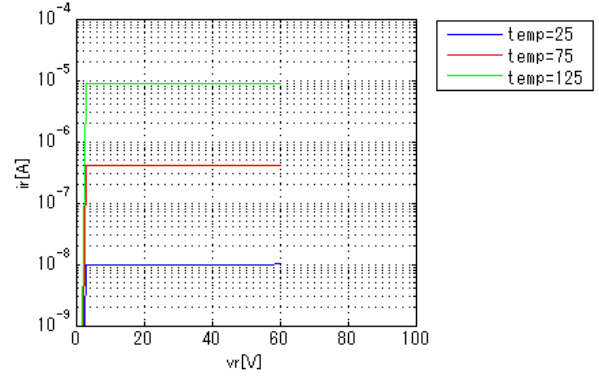
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	10	V
Reverse Voltage	0	to	120	V
Temperature	-65	to	175	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**IfVr[Temp]**

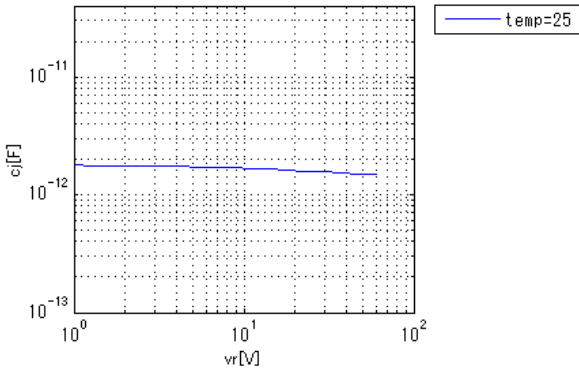


**IrVr[Temp]**



**CjVr**

Freq. = 1MHz



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