

# PSpice Model

## Fast Recovery Diode

### SHINDENGEN

### SG5LC20USM



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SG5LC20USM\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SG5LC20USM\_PS01.lib  
 Model Report MDC\_SG5LC20USM\_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 2012.12
- Product name SG5LC20USM
- Company name Shindengen Electric Manufacturing Co., Ltd.
- Characteristics IfVf[Temp],CjVr,Trr

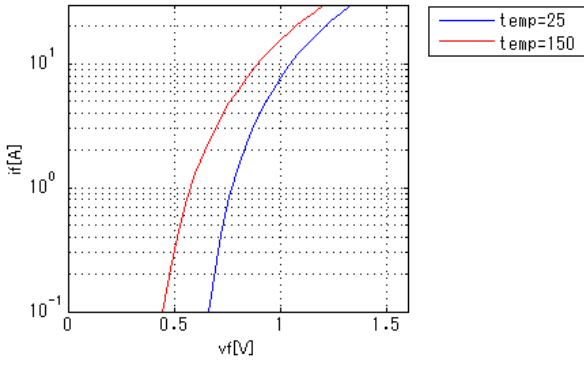
#### Simulation Range

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	400	V
Temperature	-55	to	150	deg C

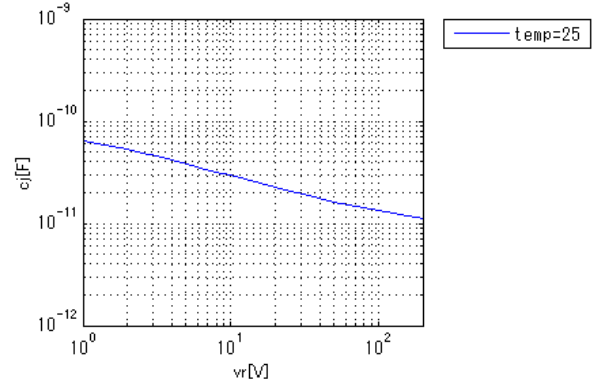
Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

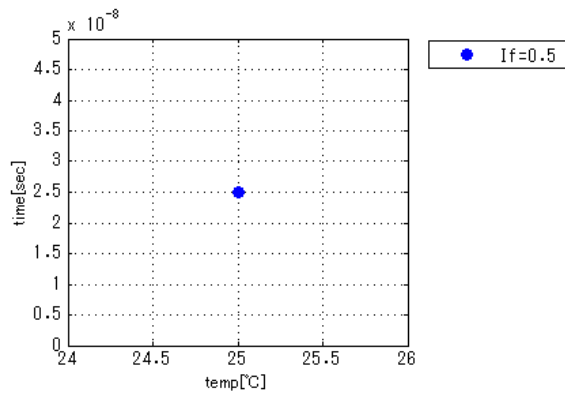


**CjVr**

Freq. = 1MHz



**Trr**



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