

# PSpice Model Rectifier Diode ON S1GFL



## Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_S1GFL\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_S1GFL\_PS01.lib  
 Model Report MDC\_S1GFL\_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 1.2
- Product name S1GFL
- Company name ON Semiconductor.
- Characteristics IfVf[Temp],IrVr[Temp],CjVr,Trr

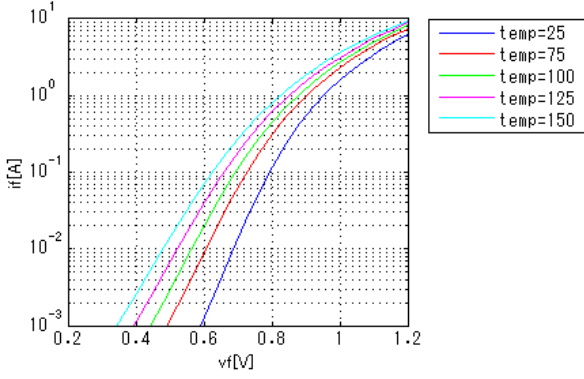
## Simulation Range

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

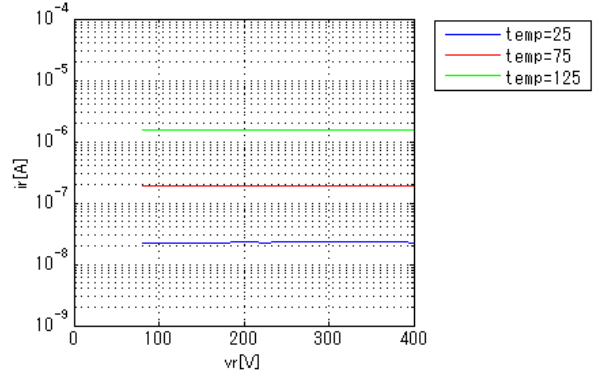
Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	12	V
Temperature	-50	to	150	deg C

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

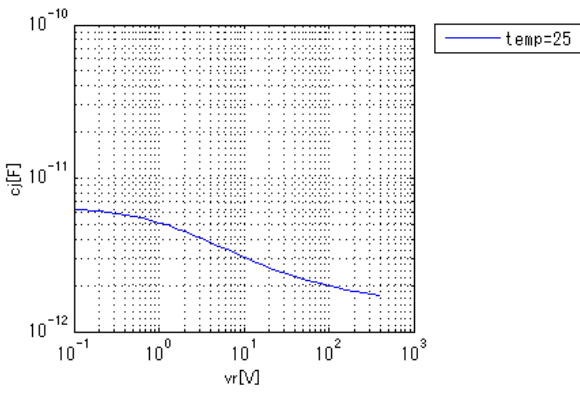


**IrVr[Temp]**

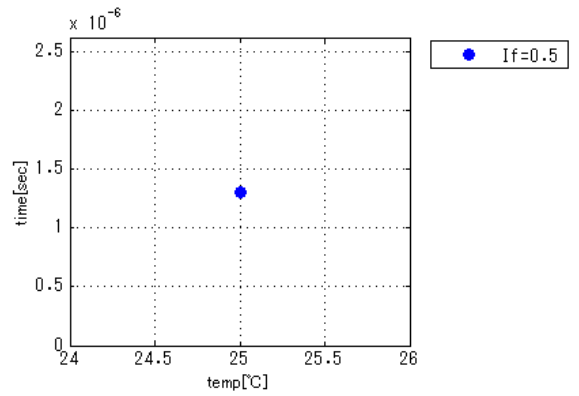


**CjVr**

Freq. = 1MHz



**Trr**



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