

# PSpice Model

## Schottky Diode

### TAIWAN SEMICONDUCTOR

### SS16M



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SS16M\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SS16M\_PS02.lib  
 Model Report MDC\_SS16M\_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 SS16M
- Company name Taiwan Semiconductor Co., Ltd.
- Characteristics CjVr,IrVr[Temp],IfVf[Temp]

#### Simulation Range

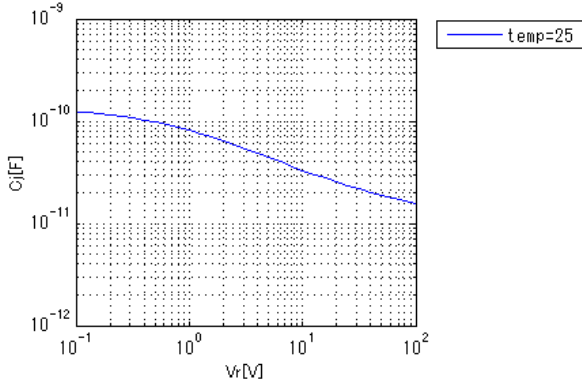
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Forward Voltage	0	to	10	V
Reverse Voltage	0	to	120	V
Temperature	-55	to	150	deg C

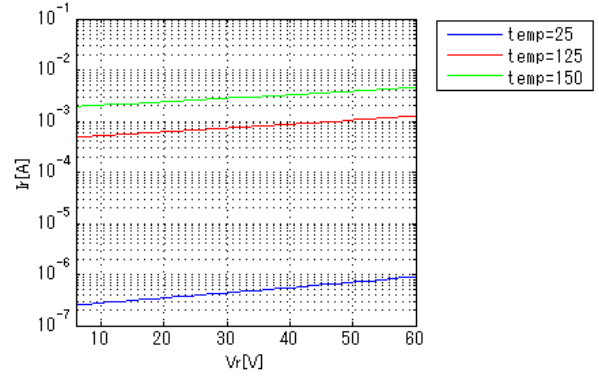
Simulation results are following.  
 Explanatory notes — : simulated

**CjVr**

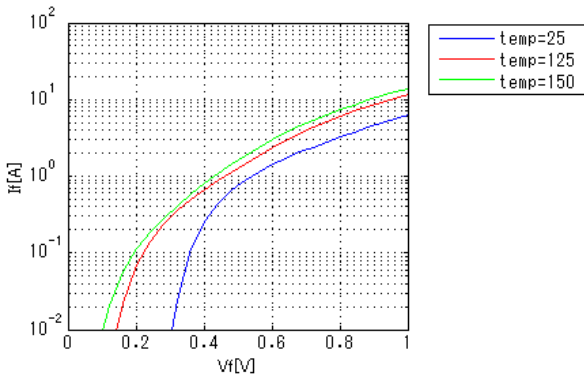
Freq. = 1MHz



**IrVr[Temp]**



**IfVf[Temp]**



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