

# PSpice Model

## Rectifier Diode

### VISHAY

### S1PMHM3



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_S1PMHM3\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_S1PMHM3\_PS01.lib  
 Model Report MDC\_S1PMHM3\_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 14-Aug-13
- Product name S1PMHM3
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],Irvr[Temp],CjVr

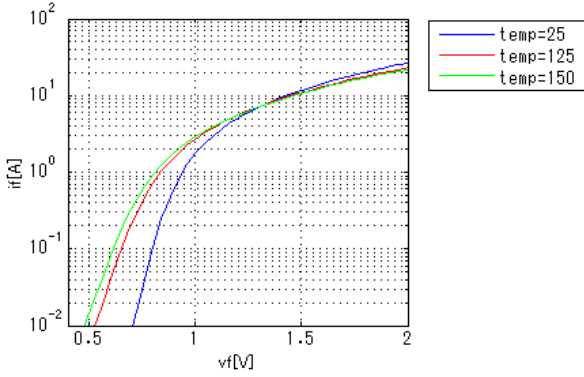
#### Simulation Range

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

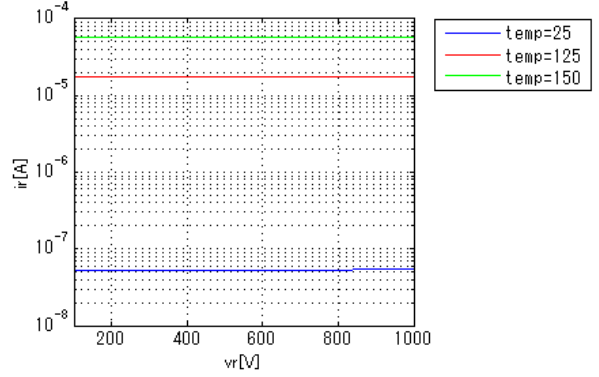
| Item            | Range |    |      | Unit  |
|-----------------|-------|----|------|-------|
|                 | Min.  |    | Max. |       |
| Forward Voltage | 0     | to | 20   | V     |
| Reverse Voltage | 0     | to | 2000 | V     |
| Temperature     | -55   | to | 150  | deg C |

Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**

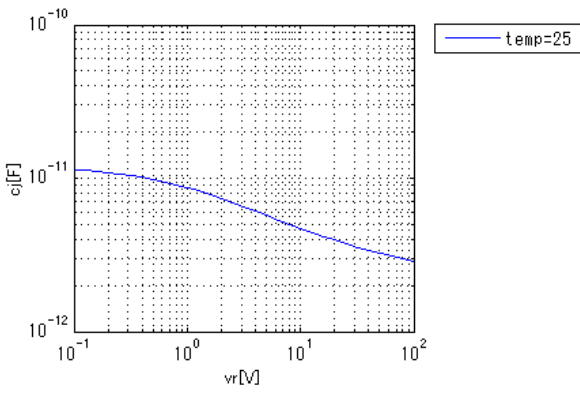


**IrVr[Temp]**



**CjVr**

Freq. = 1MHz



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