

# PSpice Model Photocoupler Tr. Output ON MOCD211M

## Model Information

**Model** An original macro model  
**Call Name** MDC\_MOCD211M\_PS  
**Pin Assign** 1:Anode 2:Cathode 3:Emitter 4:Collector  
**File List** Model Library MDC\_MOCD211M\_PS01.lib  
 Model Report MDC\_MOCD211M\_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 4.10
- Product name MOCD211M
- Company name ON Semiconductor.
- Characteristics IfVf[Temp],IcIf[Vce],IcVce[If],IcTemp[If]

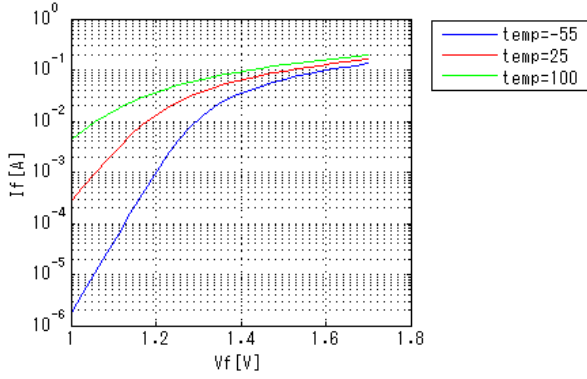
## Simulation Range

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 current (DC)	0	to	0.06	A
Collector-emitter voltage (DC)	0	to	30	V
Temperature	-40	to	125	deg C

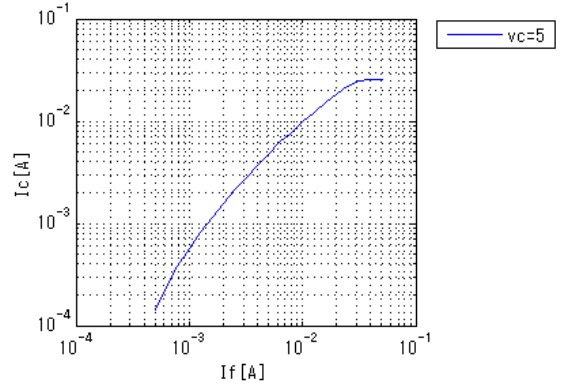
Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**



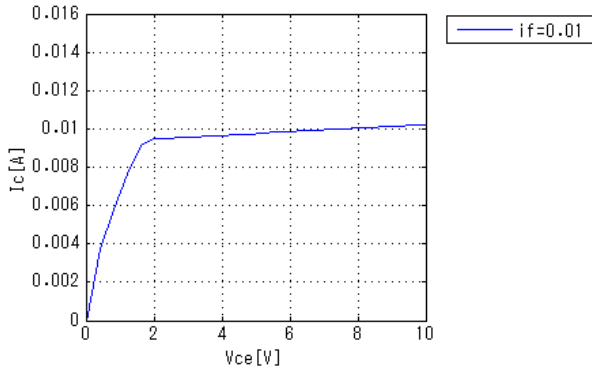
**IcIf[Vce]**

Temp. = 25deg C



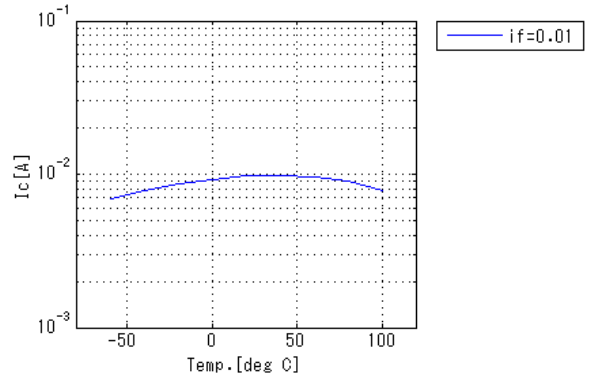
**IcVce[If]**

Temp. = 25deg C



**IcTemp[If]**

Vc = 5V



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