

# PSpice Model

## Photocoupler Tr. Output

### VISHAY

### CNY651AGRST

#### Model Information

**Model** An original macro model  
**Call Name** MDC\_CNY651AGRST\_PS  
**Pin Assign** 1:Anode 2:Cathode 3:Emitter 4:Collector  
**File List** Model Library MDC\_CNY651AGRST\_PS01.lib  
 Model Report MDC\_CNY651AGRST\_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 1.0
- Product name CNY651AGRST
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],IcVce[If],hFEIf[Vce]

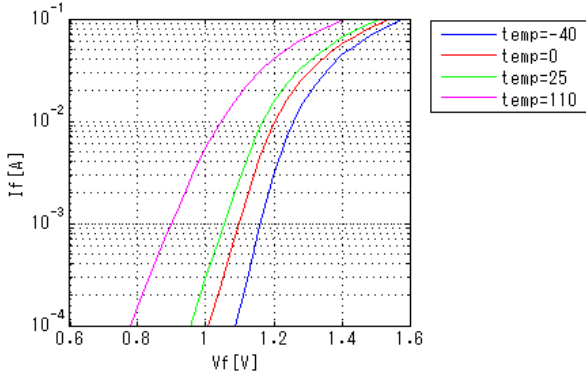
#### Simulation Range

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	0.075	A
Collector-emitter voltage (DC)	0	to	32	V
Temperature	-40	to	110	deg C

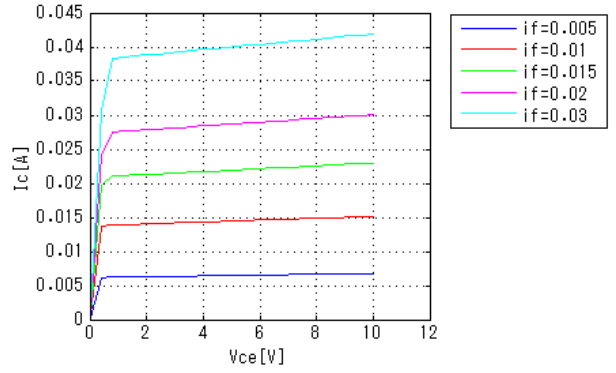
Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**



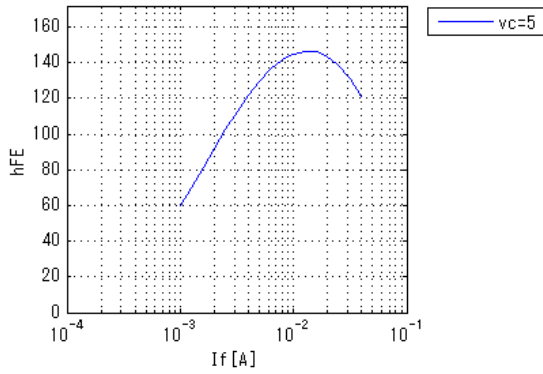
**IcVce[If]**

Temp. = 25deg C



**hFEIf[Vce]**

Temp. = 25deg C



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