

# PSpice Model

## Photocoupler Tr. Output

### VISHAY

### SFH690AB

#### Model Information

**Model** An original macro model  
**Call Name** MDC\_SF690AB\_PS  
**Pin Assign** 1:Anode 2:Cathode 3:Emitter 4:Collector  
**File List** Model Library MDC\_SF690AB\_PS01.lib  
 Model Report MDC\_SF690AB\_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 2.6
- Product name SFH690AB
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],IcVce[If],hFEIf[Vce]

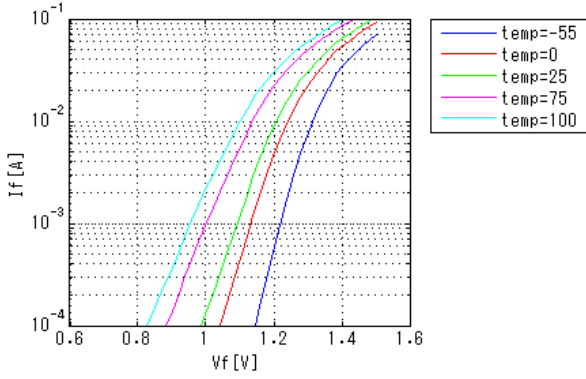
#### Simulation Range

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	0.05	A
Collector-emitter voltage (DC)	0	to	70	V
Temperature	-55	to	150	deg C

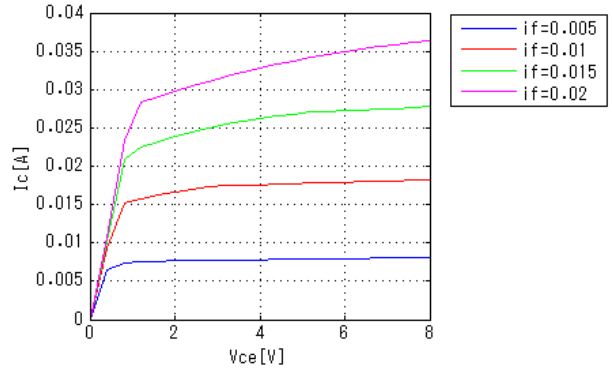
Simulation results are following.  
 Explanatory notes — : simulated

**IfVf[Temp]**



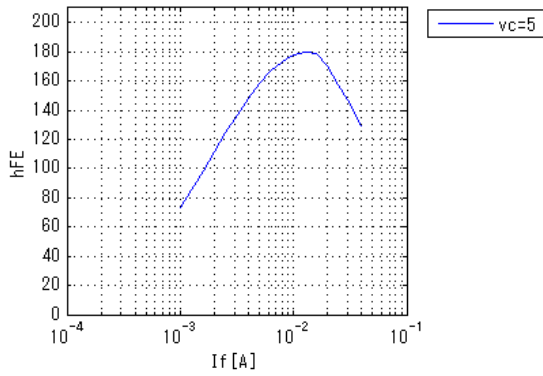
**IcVce[If]**

Temp. = 25deg C



**hFEIf[Vce]**

Temp. = 25deg C



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MoDeCH Inc.

Head Office

Location: Mitsuseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:[model-on-support@modech.co.jp](mailto:model-on-support@modech.co.jp)

URL:<http://www.modech.com/en/>