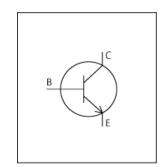


# PSpice Model NPN TOSHIBA 2SC5548A



# **Model Information**

Model Gummel-Poon model Call Name MDC\_2SC5548A\_PS

**Pin Assign** 1:C 2:B 3:E **File List** Model Library

Model Library MDC\_2SC5548A\_PS02.lib
Model Report MDC\_2SC5548A\_PS.pdf (this file)

**Verified Simulator Version** 

Note

PSpice version 16.6

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct name2013-11-012SC5548A

Company name Toshiba Corporation

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],Ic

Vbe[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.	
Collector-emitter voltage (DC)	0	to	400	V
Base current (DC)	0	to	0.5	Α
Temperature	-55	to	150	deg C

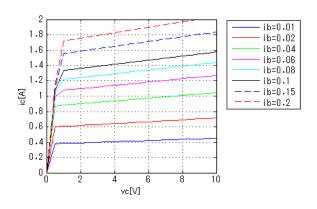


Simulation results are following.

Explanatory notes — : simulated

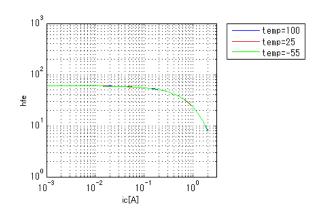
#### IcVce[ib]

Temp. = 25deg C



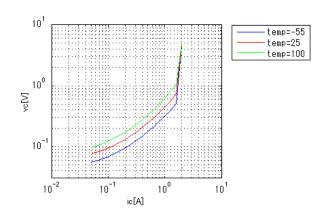
## hFEIc[Temp]

Vce = 5V



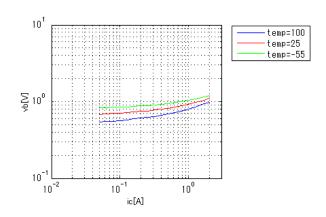
#### Vce(sat)lc[Temp]

IC/IB = 8



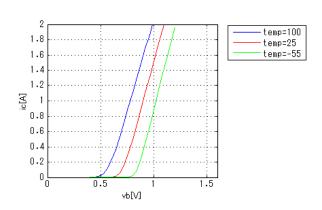
## Vbe(sat)lc[Temp]

IC/IB = 8



#### IcVbe[Temp]

Vce = 5V





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