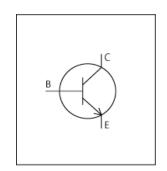


# PSpice Model NPN TOSHIBA 2SC5200N



# **Model Information**

Model Mextram model
Call Name MDC\_2SC5200N\_PS

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

Model Library MDC\_2SC5200N\_PS01.lib
Model Report MDC\_2SC5200N\_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/Version 2014-01-24 Rev.3.0

● Product name 2SC5200N

Company name Toshiba Corporation

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

#### Simulation Range

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

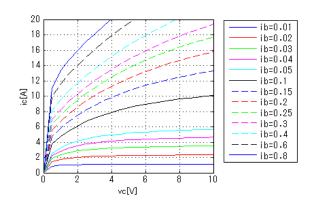
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	230	V
Base current (DC)	0	to	2	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

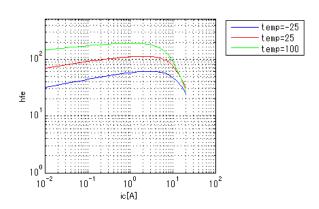
## IcVce[ib]

Temp. = 25deg C



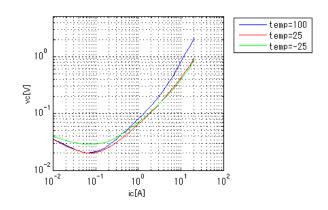
## hFEIc[Temp]

Vce = 5V



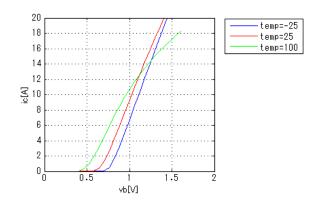
#### Vce(sat)lc[Temp]

IC/IB = 10



#### IcVbe[Temp]

Vce = 5V





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