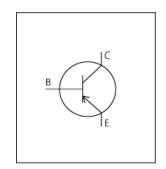


# PSpice Model PNP TOSHIBA 2SA1943N



## **Model Information**

Model Mextram model
Call Name MDC\_2SA1943N\_PS

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

Model Library MDC\_2SA1943N\_PS01.lib
Model Report MDC\_2SA1943N\_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 2015-05-12 Rev.2.0

Product name 2SA1943N

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

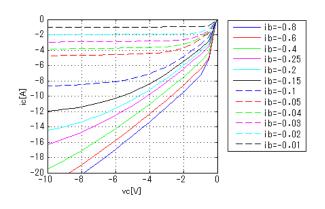


Simulation results are following.

Explanatory notes — : simulated

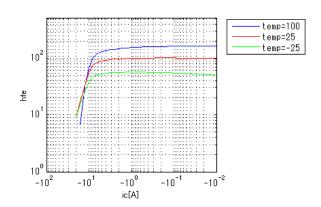
## IcVce[ib]

Temp. = 25deg C



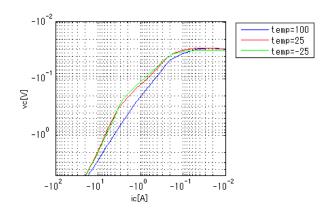
## hFEIc[Temp]

Vce = -5V



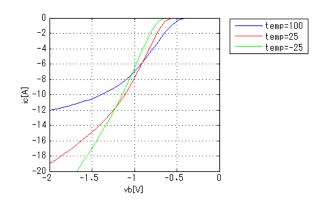
#### Vce(sat)lc[Temp]

IC/IB = 10



#### IcVbe[Temp]

Vce = -5V





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