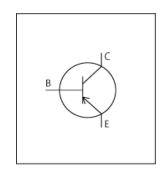


# PSpice Model PNP TOSHIBA 2SA1313



# **Model Information**

Model Gummel-Poon model Call Name MDC\_2SA1313\_PS

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

Model Library MDC\_2SA1313\_PS02.lib
Model Report MDC\_2SA1313\_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 nameUnknown2SA1313

Company name Toshiba Corporation

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

#### **Simulation Range**

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

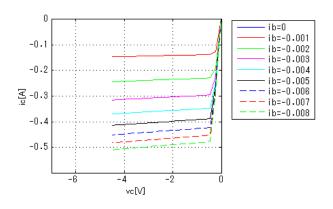
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-50m	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

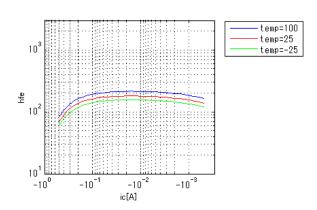
# IcVce[ib]

Temp. = 25deg C



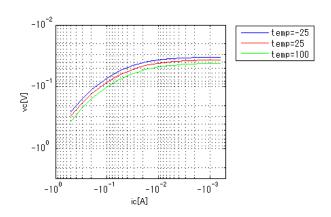
# hFEIc[Temp]

Vce = -6V



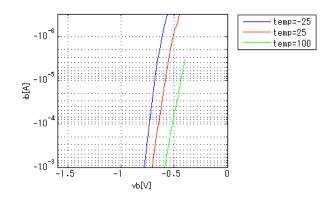
## Vce(sat)lc[Temp]

IC/IB = 10



## IbVbe[Temp]

Vce = -6V





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