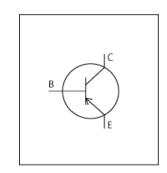


# PSpice Model PNP TOSHIBA TTA005



# **Model Information**

Model Mextram model
Call Name MDC\_TTA005\_PS
Pin Assign 1:C 2:B 3:E

Model Library MDC\_TTA005\_PS01.lib

Model Report MDC\_TTA005\_PS.pdf (this file)

**Verified Simulator Version** 

Note

**File List** 

PSpice version 16.6

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameUnknownTTA005

● 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.

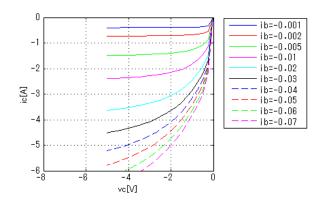
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-0.50	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

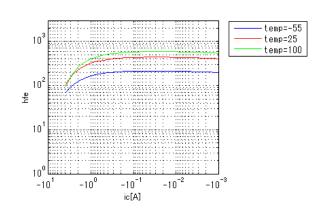
#### IcVce[ib]

Temp. = 25deg C



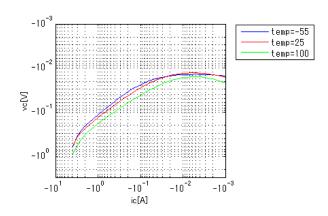
#### hFEIc[Temp]

Vce = -2V



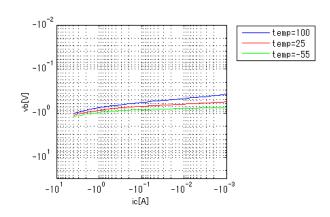
## Vce(sat)lc[Temp]

IC/IB = 30



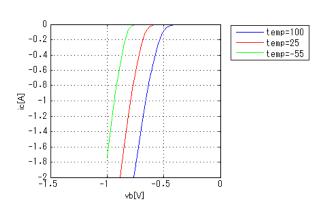
### Vbe(sat)lc[Temp]

IC/IB = 30



#### IcVbe[Temp]

Vce = -2V





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MoDeCH Inc.

**Head Office** 

Location: Mitsuiseimei 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

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