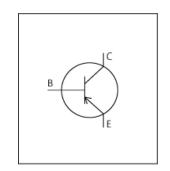


PSpice Model PNP TOSHIBA TTA004B



Model Information

Model Mextram model
Call Name MDC_TTA004B_PS

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

Model Library MDC_TTA004B_PS01.lib
Model Report MDC_TTA004B_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 2013-08-29 Rev.1.0

● Product name TTA004B

● 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.

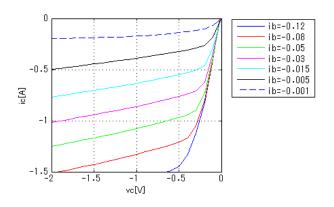
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-160	V
Base current (DC)	0	to	-0.50	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

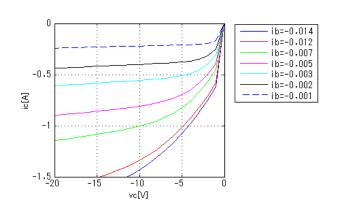
IcVce[ib]

Temp. = 25deg C



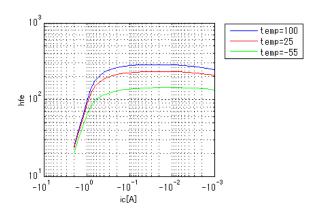
IcVce[ib]

Temp. = 25deg C



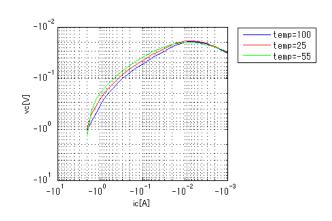
hFElc[Temp]

Vce = -5V



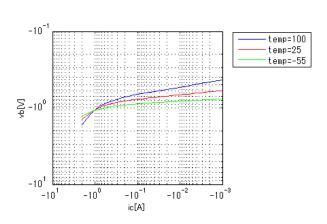
Vce(sat)lc[Temp]

IC/IB = 10



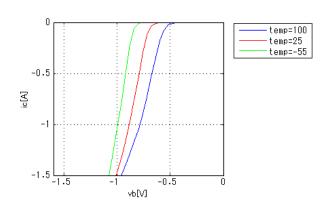
Vbe(sat)lc[Temp]

IC/IB = 10



IcVbe[Temp]

Vce = -5V





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