

PSpice Model

PNP

TOSHIBA

TTA006B



Model Information

Model Mextram model
Call Name MDC_TTA006B_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_TTA006B_PS01.lib
 Model Report MDC_TTA006B_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2014-10-10 Rev.1.0
- Product name TTA006B
- Company name Toshiba Corporation
- Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],IcVbe[Temp],fTIC[Vce]

Simulation Range

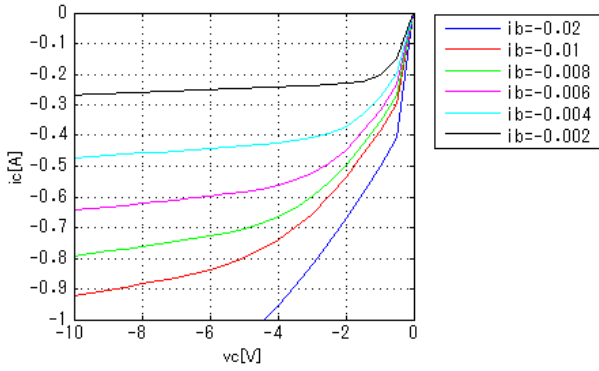
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-230	V
Base current (DC)	0	to	-0.50	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

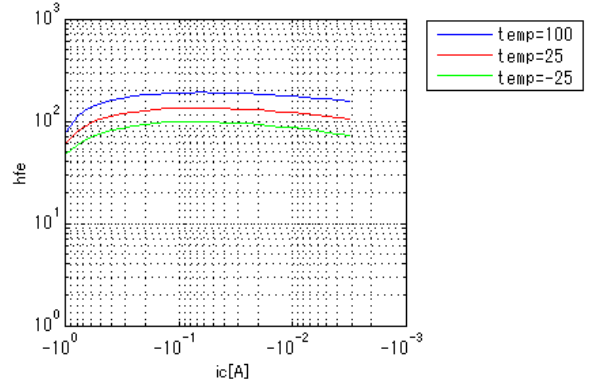
IcVce[ib]

Temp. = 25deg C



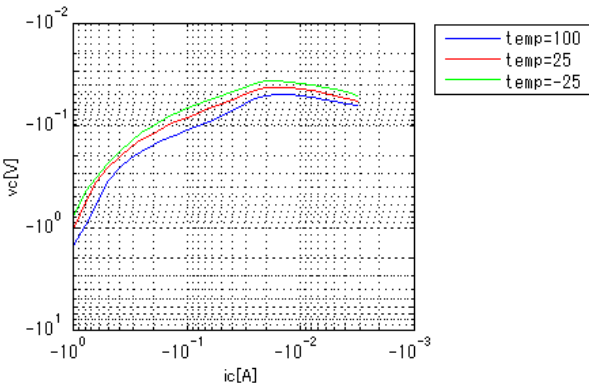
hFEIc[Temp]

Vce = -5V



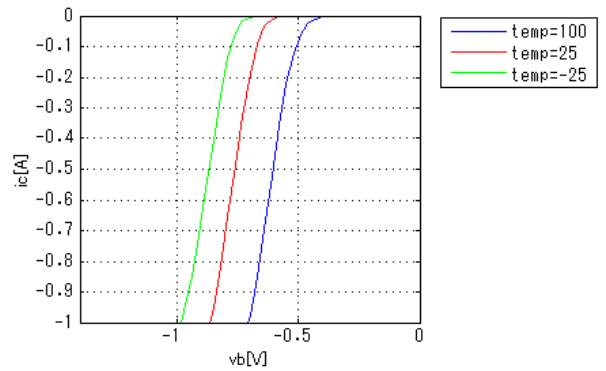
Vce(sat)Ic[Temp]

IC/IB = 10

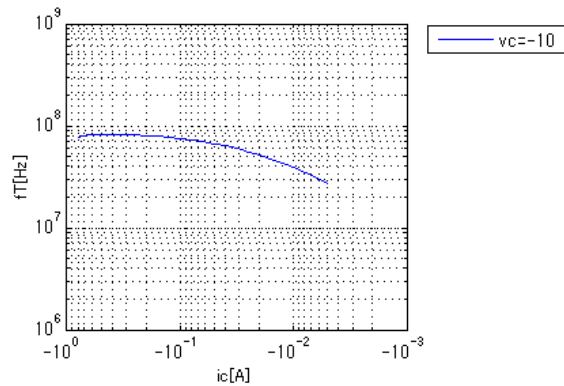


IcVbe[Temp]

Vce = -5V



fT Ic [Vce]



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MoDeCH Inc.

Head Office

Location: Mitsuseimei 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/>