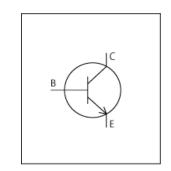


PSpice Model NPN TOSHIBA TTC008



Model Information

Model Gummel-Poon model
Call Name MDC_TTC008_PS
Pin Assign 1:C 2:B 3:E

Model Library MDC_TTC008_PS02.lib

Model Report MDC_TTC008_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/Version 2014-04-03 Rev.2.0

● Product name TTC008

● 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.

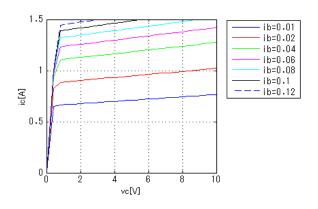
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	285	V
Base current (DC)	0	to	0.75	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

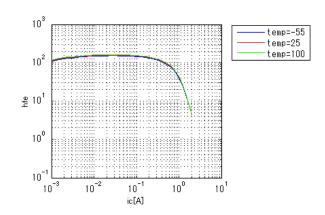
IcVce[ib]

Temp. = 25deg C



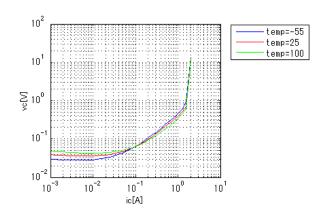
hFEIc[Temp]

Vce = 5V



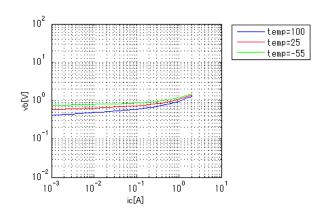
Vce(sat)lc[Temp]

IC/IB = 8



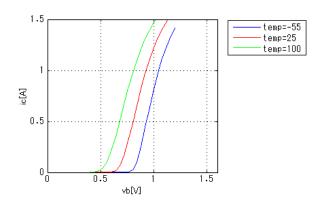
Vbe(sat)lc[Temp]

IC/IB = 8



IcVbe[Temp]

Vce = 5V





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