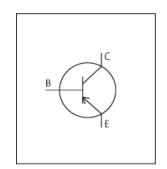


PSpice Model PNP TOSHIBA 2SA1241



Model Information

Model Mextram model
Call Name MDC_2SA1241_PS

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

Model Report MDC_2SA1241_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_2SA1241_PS01.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct name2013-11-012SA1241

● 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.

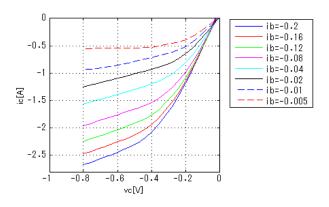
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-50	V
Base current (DC)	0	to	-1	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

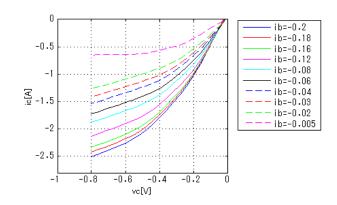
IcVce[ib]

Temp. = 25deg C



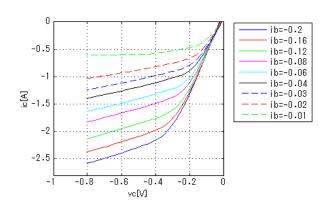
IcVce[ib]

Temp. = 100deg C



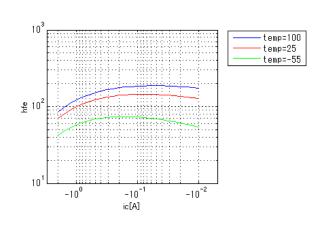
IcVce[ib]

Temp. = -55deg C



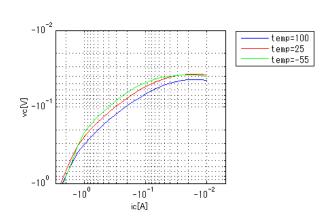
hFElc[Temp]

Vce = -2V



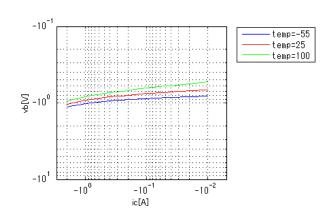
Vce(sat)lc[Temp]

IC/IB = 20



Vbe(sat)lc[Temp]

IC/IB = 20

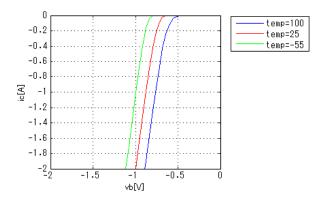




Simulation results are following. Explanatory notes — : simulated

IcVbe[Temp]

Vce = -2V





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