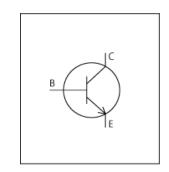


PSpice Model NPN TOSHIBA 2SC6076



Model Information

Model Mextram model
Call Name MDC_2SC6076_PS

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

Model Library MDC_2SC6076_PS01.lib
Model Report MDC_2SC6076_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 nov 2013Product name 2SC6076

Company name Toshiba Corporation

● Characteristics IcVce[ib],IcVbe[Temp],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(s

at)Ic[Temp],fTIc[Vce]

Simulation Range

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

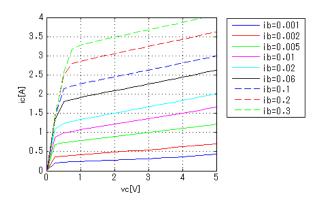
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	80	V
Base current (DC)	0	to	2	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

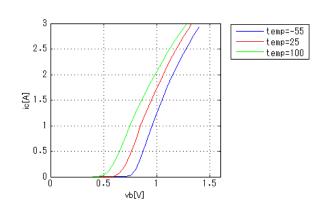
IcVce[ib]

Temp. = 25deg C



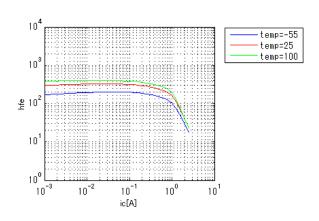
IcVbe[Temp]

Vce = 2V



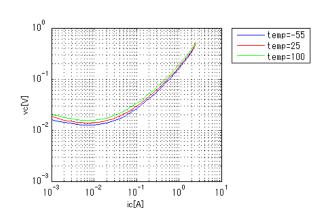
hFEIc[Temp]

Vce = 2V



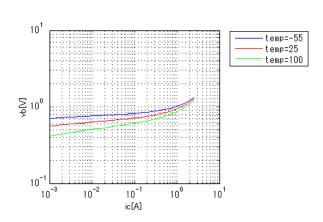
Vce(sat)lc[Temp]

IC/IB = 10

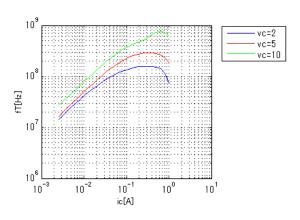


Vbe(sat)lc[Temp]

IC/IB = 10



fTIc[Vce]





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