

# MDC\_2SA2097\_PS

# PSpice Model PNP TOSHIBA 2SA2097

# **Model Information**

ModelGummel-Poon modelCall NameMDC\_2SA2097\_PSPin Assign1:C 2:B 3:EFile ListModel Library<br/>Model Report

MDC\_2SA2097\_PS02.lib MDC\_2SA2097\_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

#### References

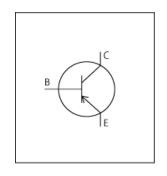
The information which was used for modeling is as follow:

2013-11-01 2SA2097 Toshiba Corporation IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],Ic Vbe[Temp],Vcelb[Ic]

#### 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	-0.50	А
Temperature	-55	to	150	deg C

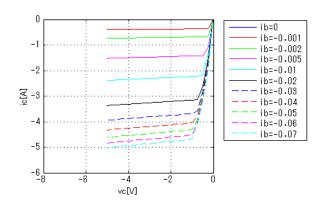




# Simulation results are following. Explanatory notes -: simulated

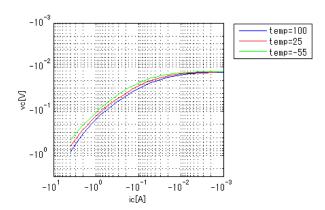
#### IcVce[ib]

Temp. = 25deg C



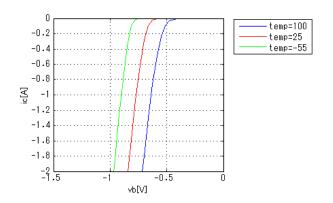
### Vce(sat)lc[Temp]

IC/IB = 30



# IcVbe[Temp]

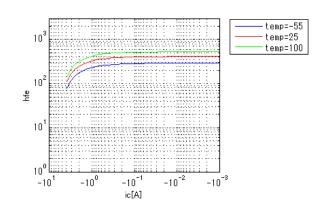
Vce = -2V



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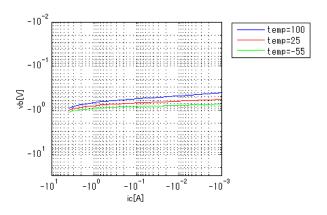
# hFElc[Temp]

Vce = -2V

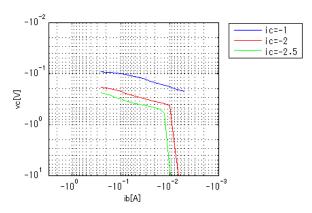


# Vbe(sat)lc[Temp]

IC/IB = 30









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