

MDC_TTA1452B_PS

PSpice Model PNP TOSHIBA TTA1452B

Model Information

ModelMextram modelCall NameMDC_TTA1452B_PSPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_TTA1452B_PS01.lib MDC_TTA1452B_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

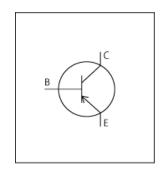
The information which was used for modeling is as follow:

2015-08-06 Rev 4.0 TTA1452B Toshiba Corporation 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	-80	V
Base current (DC)	0	to	-2	А
Temperature	-55	to	150	deg C

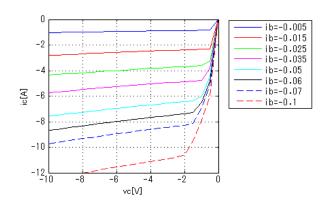




Simulation results are following. Explanatory notes — : simulated

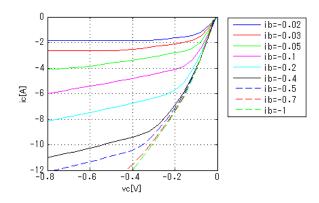
IcVce[ib]

Temp. = 25deg C



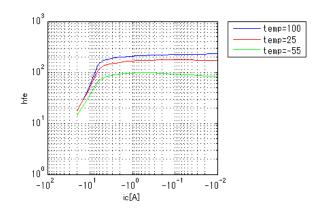
IcVce[ib]

Temp. = -55deg C



hFElc[Temp]

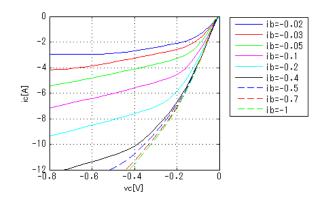
Vce = -1V



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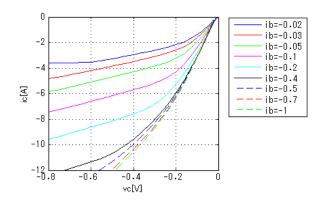
lcVce[ib]

Temp. = 25deg C



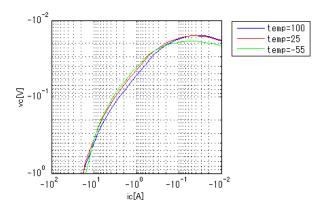
lcVce[ib]

Temp. = 100deg C



Vce(sat)lc[Temp]

IC/IB = 20

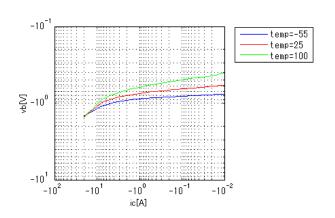




Simulation results are following. Explanatory notes -: simulated

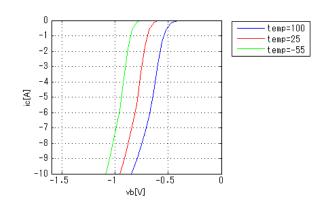
Vbe(sat)Ic[Temp]

IC/IB = 20



IcVbe[Temp]

Vce = -1V





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