

MDC_TMBT3906_PS

PSpice Model PNP TOSHIBA TMBT3906

Model Information

ModelGummel-PoonCall NameMDC_TMBT3906_PSPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_TMBT3906_PS01.lib MDC_TMBT3906_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

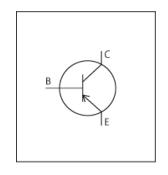
The information which was used for modeling is as follow:

Unknown TMBT3906 Toshiba Corporation IcVce[ib],IbVbe[Temp],hFEIc[Temp],Vbe(sat)Ic[Temp],Vce(s at)Ic[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	-30m	А
Temperature	-55	to	150	deg C





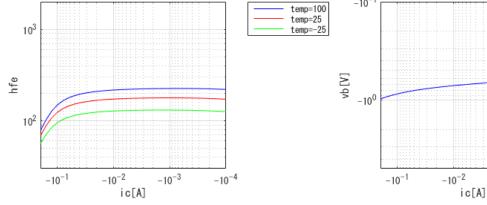
Simulation results are following. Explanatory notes - : simulated



ic [A]

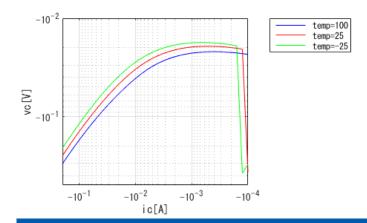
Temp. = 25deg C

lbVbe[Temp] Vce = -6V 0 i b=0 i b=-0. 0002 i b=-0. 0005 i b=-0. 001 temp=100 temp=25 -10^{-6} temp=-25 -0.05 ib=-0.0015 ib=-0.002 -0.1 -10 ib [A] -0.15 -10^{-4} -0.2 -10 -3 -8 -6 -2 0 -1.2 -0.8 -0.6 -0.4 -0.2 -1 -4 vc[V] vb[V] Vbe(sat)lc[Temp] hFElc[Temp] Vce = -1VIC/IB = 10 -10^{-1} temp=25



Vce(sat)lc[Temp]

IC/IB = 10



© 2018 MoDeCH inc. PS-DQP-18-000021-1 -10^{-3}

 -10^{-4}



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