MDC_KTC3875S_LT

LTspice Model NPN KEC KTC3875S

Model Information

ModelGummel-Poon modelCall NameMDC_KTC3875S_LTPin Assign1:E 2:B 3:CFile ListModel Library
Model Report

MDC_KTC3875S_LT01.lib MDC_KTC3875S_LT.pdf (this file)

Verified Simulator Version Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet] ●Date/Version ●Product name ●Company name ●Characteristics

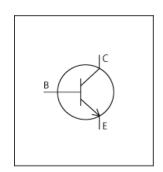
No.4 KTC3875S KEC Corporation IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],Ib Vbe[Temp],fTIc[Vce]

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	50	V
Base current (DC)	0	to	30m	А
Temperature	-55	to	150	deg C

1



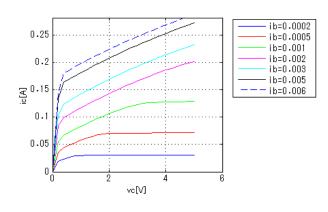




Simulation results are following. Explanatory notes — : simulated

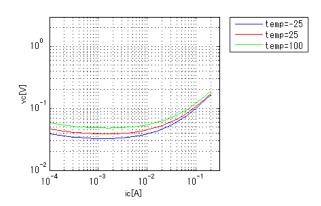
IcVce[ib]

Temp. = 25deg C



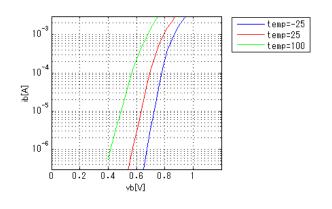
Vce(sat)lc[Temp]

IC/IB = 10



lbVbe[Temp]

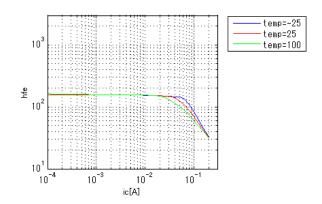
Vce = 6V



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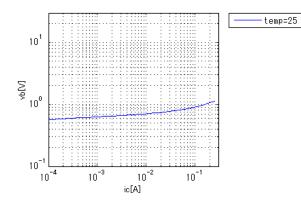
hFElc[Temp]

Vce = 1V

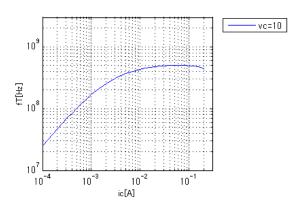


Vbe(sat)lc[Temp]

IC/IB = 10









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