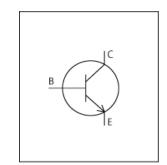


LTspice Model NPN KEC KTC4376



Model Information

Model Gummel-Poon model
Call Name MDC_KTC4376_LT

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

Model Library MDC_KTC4376_LT01.lib
Model Report MDC_KTC4376_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 Rev2.0Product name KTC4376

Company name KEC Corporation

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

Simulation Range

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

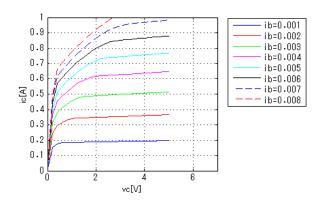
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	30	V
Base current (DC)	0	to	160m	А
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

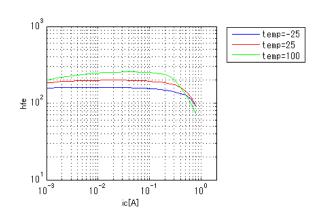
IcVce[ib]

Temp. = 25deg C



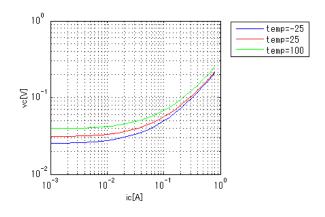
hFEIc[Temp]

Vce = 1V



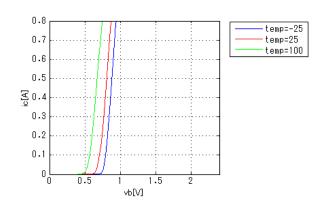
Vce(sat)lc[Temp]

IC/IB = 25



IcVbe[Temp]

Vce = 1V





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