

MDC_KTD1863_PS

PSpice Model NPN KEC KTD1863

Model Information

ModelGummel-Poon modelCall NameMDC_KTD1863_PSPin Assign1:C 2:B 3:EFile ListModel Library
Model Report

MDC_KTD1863_PS02.lib MDC_KTD1863_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

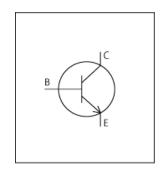
[Data Sheet] ●Date/Version ●Product name ●Company name ●Characteristics

Revision No : 1 KTD1863 KEC Corporation IcVbe[Temp],IcVce[ib],hFEIc[Vce],Vce(sat)Ic[hFE],fTIc[Vce], Cob

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	0.1	А
Temperature	-55	to	150	deg C

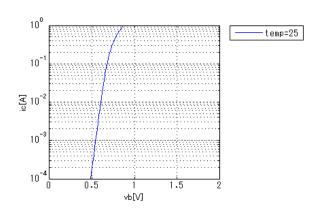




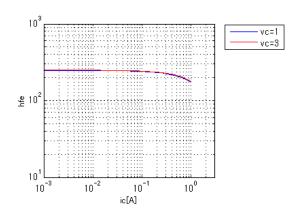
Simulation results are following. Explanatory notes — : simulated

IcVbe[Temp]

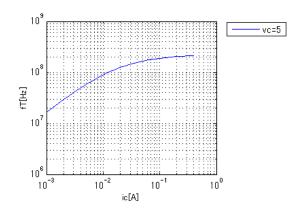
Vce = 5V



hFElc[Vce]



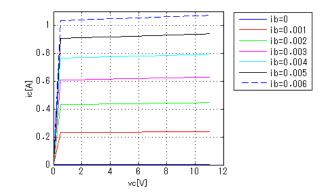
fTIc[Vce]



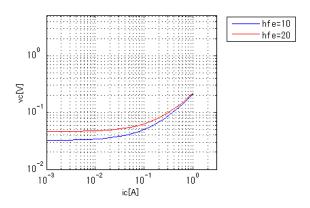
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lcVce[ib]

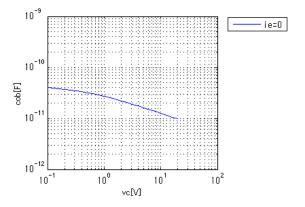
Temp. = 25deg C



Vce(sat)lc[hFE]



Cob Freq. = 1MHz





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