

# MDC\_KTC4075\_LT

# LTspice Model NPN KEC KTC4075

# **Model Information**

ModelGummel-Poon modelCall NameMDC\_KTC4075\_LTPin Assign1:E 2:B 3:CFile ListModel Library<br/>Model Report

MDC\_KTC4075\_LT01.lib MDC\_KTC4075\_LT.pdf (this file)

Verified Simulator Version Note

LTspice version XVII

#### References

The information which was used for modeling is as follow:

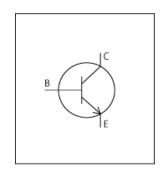
[Data Sheet] ●Date/Version ●Product name ●Company name ●Characteristics

Rev4 KTC4075 KEC Corporation IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],fT Ic[Vce],IbVbe[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

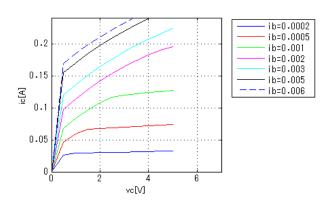




#### Simulation results are following. Explanatory notes — : simulated

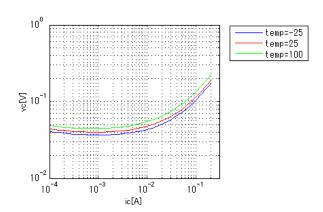
#### IcVce[ib]

Temp. = 25deg C

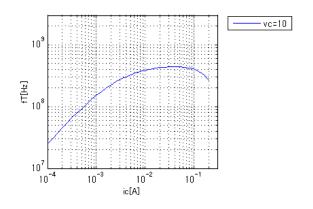


## Vce(sat)lc[Temp]

IC/IB = 10



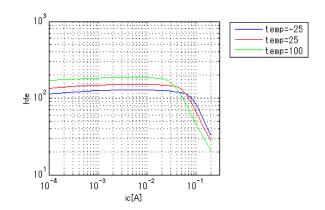
## fTIc[Vce]



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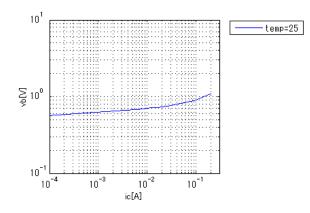
## hFElc[Temp]

Vce = 1V



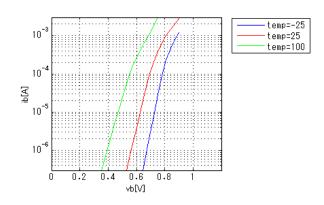
### Vbe(sat)lc[Temp]

IC/IB = 10



lbVbe[Temp]

Vce = 6V





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