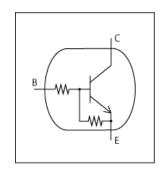


LTspice Model BRT (Bias Resistor Transistor) KEC KRC405



Model Information

Model A macro model based on Gummel-Poon model

Call Name MDC_KRC405_LT

Pin Assign 1:E 2:B 3:C

File List Model Library MDC_KRC405_LT01.lib

Model Report MDC_KRC405_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 NO.0Product name KRC405

Company name KEC Corporation

● Characteristics IcVi[OFF],IcVi[ON],hFEIc[Temp]

Simulation Range

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

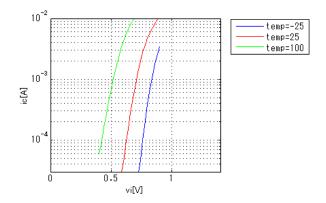
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Base current (DC)	0	to	3.6m	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

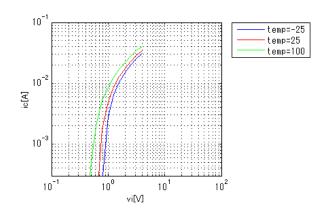
IcVi[OFF]

Vce = 5V



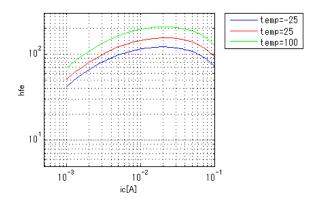
IcVi[ON]

Vce = 0.2V



hFElc[Temp]

Vce = 5V





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