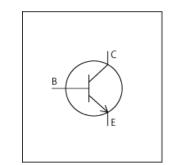


LTspice Model NPN Isahaya 2SC3052-T112-1F



Model Information

Model Mextram 504

Call Name MDC 2SC3052-T112-1F LT

Pin Assign 1:B 2:E 3:C

File List Model Library MDC_2SC3052-T112-1F_LT01.lib

Model Report MDC_2SC3052-T112-1F_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 2020/07

● Product name 2SC3052-T112-1F

Company name Isahaya Electronics Corporation

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

ce],Cob

Simulation Range

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

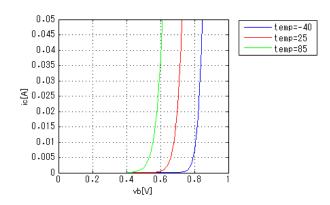
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Collector current (DC)	0	to	0.2	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

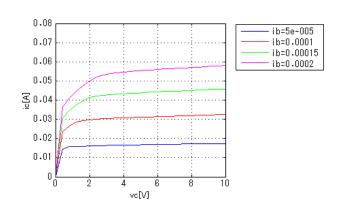
IcVbe[Temp]

Vce = 6V



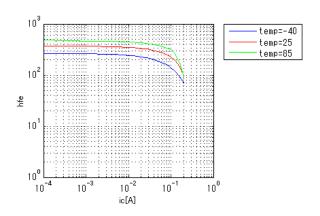
IcVce[ib]

Temp. = 25deg C



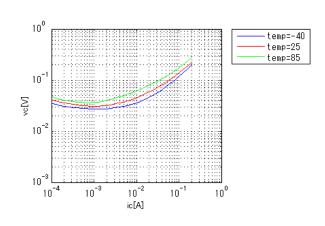
hFElc[Temp]

Vce = 6V

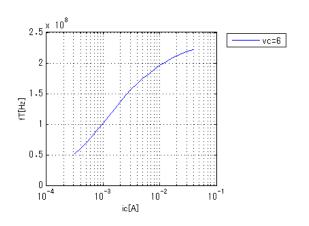


Vce(sat)lc[Temp]

IC/IB = 10

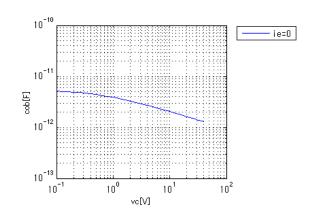


fTIc[Vce]



Cob

Freq. = 1MHz





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Rev. 1.0