

LTspice Model BRT (Bias Resistor Transistor) ROHM Semiconductor DTC123JKAT146

Model Information

 Model
 A macro model based on Gummel-Poon model

 Call Name
 MDC_DTC123JKAT146_LT

 Pin Assign
 1:E 2:B 3:C

 File List
 Model Library
 MDC_DTC123JKAT146_LT01.lib

 Model Report
 MDC_DTC123JKAT146_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

20150311 - Rev.002 DTC123JKAT146 ROHM Co., Ltd. ICVCEIB,ICVBETEMP,ICVBETEMP02, HFEICTEMP,VCESATICTEMP

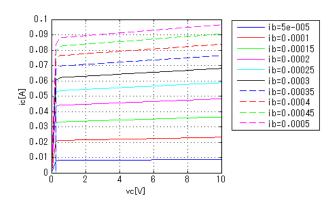
Simulation Range

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

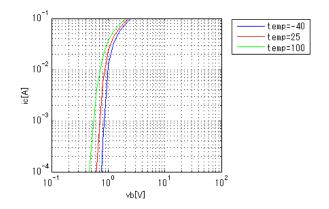
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Base current (DC)	0	to	0.1	А
Temperature	-55	to	150	deg C



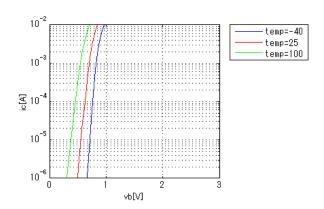
ICVCEIB



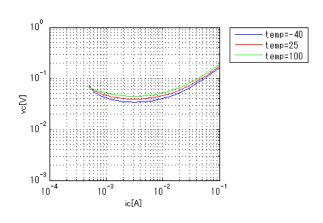
ICVBETEMP



ICVBETEMP02

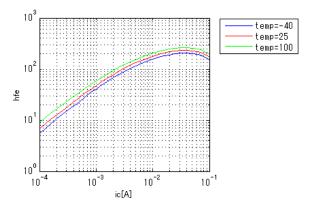


VCESATICTEMP



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HFEICTEMP





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