

### MDC\_2PA1576S\_LT

# LTspice Model PNP Nexperia 2PA1576S

# **Model Information**

ModelGummel-Poon modelCall NameMDC\_2PA1576S\_LTPin Assign1:B 2:E 3:CFile ListModel Library<br/>Model Report

MDC\_2PA1576S\_LT01.lib MDC\_2PA1576S\_LT.pdf (this file)

Verified Simulator Version Note

LTspice version XVII

#### References

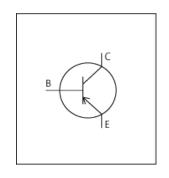
The information which was used for modeling is as follow:

Rev. 06 - 17 November 2009 2PA1576S Nexperia B.V. hFEIc[Temp],Vce(sat)Ic[Temp],Cob,fTIc[Vce]

#### 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	-150	mA
Temperature	-65	to	150	deg C





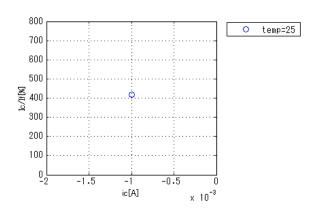
BJT		O : Implemented × : Not Implemented	
Model Functions Table	RANK=1		
Functions	RANK	Implemented	
IC-VBE(Temp)	1	—	
IC-VCE-IB(Temp)	1	—	
IC-hFE(Temp)	1	0	
VCE(sat)-IC	1	0	
VBE(sat)-IC	1	—	
Capacitance	1	0	
Transition	1	0	
Switching	1	—	



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

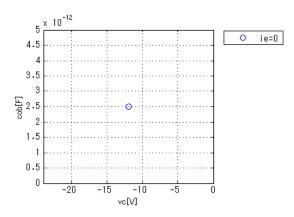
#### hFElc[Temp]





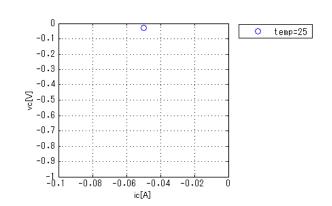
### Cob

Freq = 1000000Hz

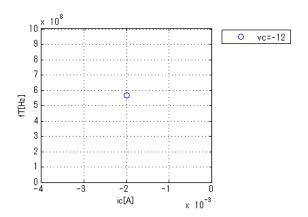


## Vce(sat)lc[Temp]

IC/IB = 10



**fTic[Vce]** Freq = 1000000Hz





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