



LVDS (Tx/Rx) Design With 5V Devices in Sky130nm Process Design Characteristics

Nov, 2023
Revision 0.0

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	Models	Vcc	Junction Temp(C)	Work @ 1GHz	Total Icc(mA)	Power(m W)
1	TT	5	25	Yes	28.76	143.8
2	TT	5	-40	Yes	28.59	142.95
3	TT	5	125	Yes	29	145
4	TT	4.5	25	Yes	26	117
5	TT	4.5	-40	Yes	25.8	116.1
6	TT	4.5	125	Yes	26.31	118.395
7	TT	5.5	25	Yes	31.53	173.415
8	TT	5.5	-40	Yes	31.4	172.7
9	TT	5.5	125	Yes	31.7	174.35
10	SS	5	25	Yes	27.58	137.9
11	SS	5	-40	Yes	27.6	138
12	SS	5	125	Yes	27.85	139.25
13	SS	4.5	25	Yes	24.64	110.88
14	SS	4.5	-40	Yes	24.55	110.475
15	SS	4.5	125	Yes	24.86	111.87
16	SS	5.5	25	Yes	30.49	167.695
17	SS	5.5	-40	Yes	30.59	168.245
18	SS	5.5	125	Yes	30.725	168.9875
19	FF	5	25	Yes	30.01	150.05
20	FF	5	-40	Yes	29.83	149.15
21	FF	5	125	Yes	30.26	151.3
22	FF	4.5	25	Yes	27.37	123.165
23	FF	4.5	-40	Yes	27.16	122.22
24	FF	4.5	125	Yes	27.66	124.47
25	FF	5.5	25	Yes	32.76	180.18
26	FF	5.5	-40	Yes	32.58	179.19
27	FF	5.5	125	Yes	32.53	178.915
28	SF	5	25	Yes	29.39	146.95
29	SF	5	-40	Yes	29.29	146.45
30	SF	5	125	Yes	29.63	148.15

31	SF	4.5	25	Yes	26.5	119.25
32	SF	4.5	-40	Yes	26.24	118.08
33	SF	4.5	125	Yes	26.89	121.005
34	SF	5.5	25	Yes	32.53	178.915
35	SF	5.5	-40	Yes	32.24	177.32
36	SF	5.5	125	Yes	32.39	178.145
37	FS	5	25	Yes	28.27	141.35
38	FS	5	-40	Yes	28.15	140.75
39	FS	5	125	Yes	28.47	142.35
40	FS	4.5	25	Yes	25.55	114.975
41	FS	4.5	-40	Yes	25.45	114.525
42	FS	4.5	125	Yes	25.73	115.785
43	FS	5.5	25	Yes	31.1	171.05
44	FS	5.5	-40	Yes	30.97	170.335
45	FS	5.5	125	Yes	31.3	172.15