

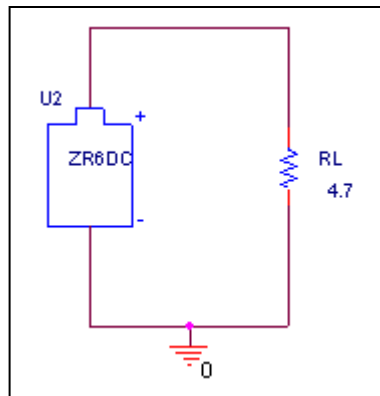
Device Modeling Report

COMPONENTS: NICKEL MANGANESE
PART NUMBER: ZR6DC
MANUFACTURER: SONY
REMARK: $RL = 4.7(\Omega)$

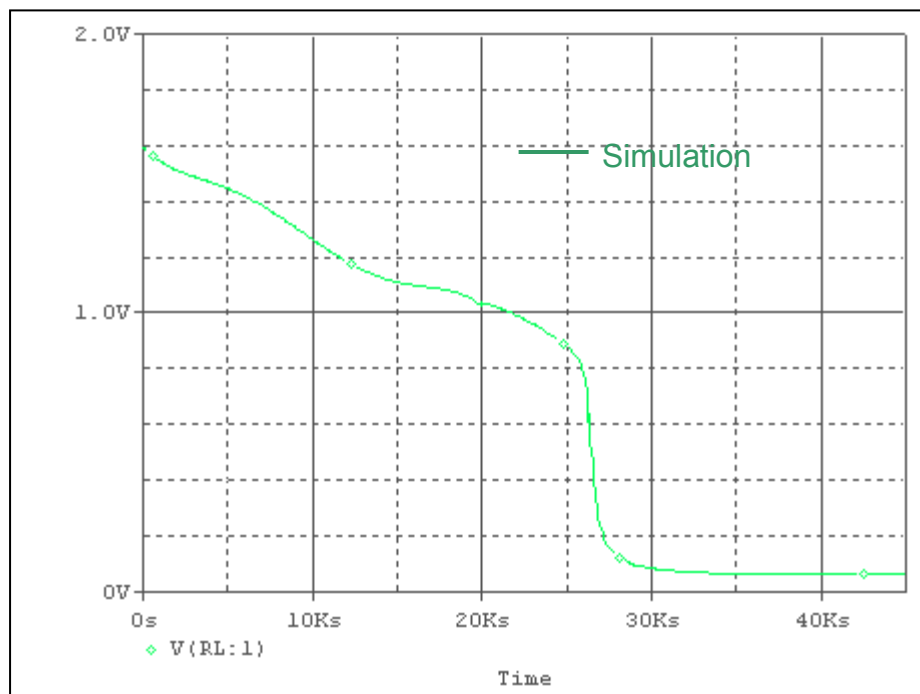


Bee Technologies Inc.

Evaluation circuit



Simulation result



Comparison Table

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
0.1	1.595797	1.5878	0.5011
0.5	1.566883	1.5660	0.0564
1	1.5447	1.5444	0.0194
1.5	1.523895	1.5268	-0.1906
2	1.51004	1.5125	-0.1629
2.5	1.499272	1.4998	-0.0352
3	1.488788	1.4890	-0.0142
3.5	1.477833	1.4784	-0.0384
4	1.467152	1.4680	-0.0578
4.5	1.455792	1.4569	-0.0761
5	1.444301	1.4450	-0.0484
5.5	1.431245	1.4319	-0.0458
6	1.417259	1.4174	-0.0099
6.5	1.401719	1.4017	0.0014
7	1.38643	1.3845	0.1392
7.5	1.370551	1.3663	0.3102
8	1.353139	1.3468	0.4685
8.5	1.333593	1.3266	0.5244
9	1.312734	1.3057	0.5358
9.5	1.28752	1.2846	0.2268
10	1.259416	1.2634	-0.3163
10.5	1.234694	1.2426	-0.6403
11	1.211985	1.2224	-0.8593
11.5	1.19349	1.2031	-0.8052
12	1.178005	1.1850	-0.5938
12.5	1.163832	1.1683	-0.3839
13	1.15152	1.1534	-0.1633
13.5	1.141441	1.1400	0.1262
14	1.132905	1.1286	0.3800
14.5	1.125102	1.1189	0.5512
15	1.117857	1.1111	0.6045
15.5	1.110799	1.1045	0.5671
16	1.103827	1.0995	0.3920
16.5	1.096801	1.0949	0.1733
17	1.089382	1.0908	-0.1302
17.5	1.081995	1.0859	-0.3609
18	1.073918	1.0800	-0.5663
18.5	1.06559	1.0714	-0.5452

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
19	1.056736	1.0594	-0.2521
19.5	1.047751	1.0446	0.3007
20	1.037923	1.0252	1.2258
20.5	1.02756	1.0274	0.0156
21	1.016747	1.0171	-0.0347
21.5	1.004337	1.0045	-0.0162
22	0.9910594	0.9918	-0.0747
22.5	0.9769627	0.9761	0.0883
23	0.9613973	0.9604	0.1037
23.5	0.9438383	0.9416	0.2371
24	0.9236412	0.9229	0.0802
24.5	0.9014538	0.9017	-0.0273
25	0.877317	0.8810	-0.4198
25.5	0.8466309	0.8506	-0.4688
26	0.78014	0.7797	0.0564
26.5	0.4736397	0.4725	0.2406
27	0.2271914	0.2295	-1.0161
27.5	0.1540829	0.1594	-3.4508
28	0.1248735	0.1279	-2.4237
28.5	0.107845	0.1123	-4.1309
29	0.09695506	0.0955	1.5008
29.5	0.08934067	0.0898	-0.5141
30	0.08385152	0.0850	-1.3697
30.5	0.07979698	0.0808	-1.2570
31	0.07663524	0.0774	-0.9979
31.5	0.07424811	0.0745	-0.3393
32	0.07235162	0.0723	0.0713
32.5	0.07082514	0.0704	0.6003
33	0.06956385	0.0690	0.8106
33.5	0.06864876	0.0678	1.2364
34	0.06780051	0.0670	1.1807
34.5	0.06711877	0.0664	1.0709
35	0.06653922	0.0659	0.9607
35.5	0.06617393	0.0656	0.8673
36	0.06562686	0.0653	0.4981
36.5	0.06525521	0.0651	0.2379
37	0.06493107	0.0650	-0.1062
37.5	0.06460892	0.0648	-0.2957
38	0.06434516	0.0646	-0.3961
38.5	0.06411509	0.0644	-0.4444

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
39	0.06386714	0.0642	-0.5212
39.5	0.06363257	0.0639	-0.4203
40	0.06344411	0.0636	-0.2457
40.5	0.06327947	0.0632	0.1256
41	0.06309627	0.0629	0.3111
41.5	0.06291351	0.0625	0.6573
42	0.06274086	0.0622	0.8621
42.5	0.06255755	0.0619	1.0511
43	0.0623759	0.06178	0.9553
43.5	0.06217865	0.06170	0.7698
44	0.06197702	0.06018	2.8995
44.5	0.06173323	0.0621	-0.5941
45	0.06149559	0.0626	-1.7959

Comparison Graph

