

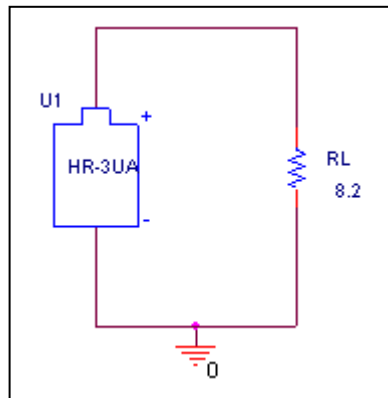
Device Modeling Report

COMPONENTS: NICKEL METAL HYDRIDE (Ni-MH)
PART NUMBER: HR-3UA
MANUFACTURER: SANYO
CONDITION: $RL = 8.2 \text{ } (\Omega)$

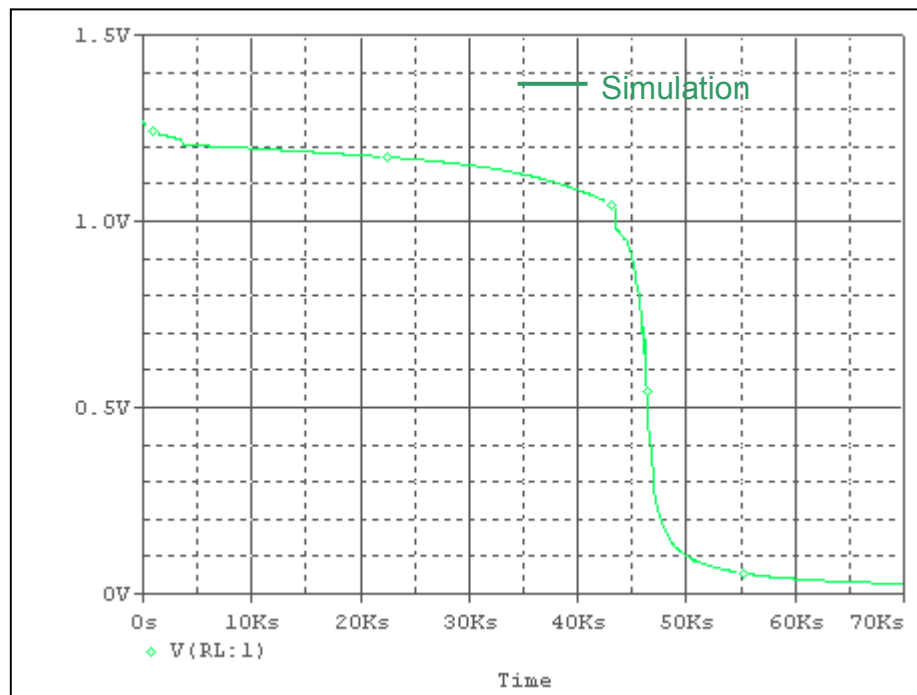


Bee Technologies Inc.

Evaluation circuit



Simulation result



Reference

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
0.5	1.249	1.25	-0.080
1	1.24	1.24	0.000
2	1.229	1.229	0.000
3	1.223	1.223	0.000
4	1.206	1.203	0.249
5	1.202	1.202	0.000
6	1.201	1.201	0.000
7	1.199	1.2	-0.083
8	1.198	1.198	0.000
9	1.197	1.197	0.000
10	1.196	1.1956	0.033
11	1.194	1.1939	0.008
12	1.192	1.192	0.000
13	1.19	1.19	0.000
14	1.189	1.1885	0.042
15	1.187	1.1867	0.025
16	1.185	1.1848	0.017
17	1.183	1.1829	0.008
18	1.181	1.181	0.000
19	1.179	1.179	0.000
20	1.178	1.177	0.085
21	1.176	1.175	0.085
22	1.173	1.173	0.000
23	1.171	1.1708	0.017
24	1.168	1.1685	-0.043
25	1.166	1.166	0.000
26	1.163	1.163	0.000
27	1.162	1.1606	0.120
28	1.158	1.1575	0.043
29	1.154	1.1542	-0.017
30	1.15	1.15	0.000
31	1.146	1.146	0.000
32	1.14	1.142	-0.175
33	1.136	1.137	-0.088
34	1.13	1.131	-0.088
35	1.124	1.125	-0.089
36	1.118	1.118	0.000
37	1.111	1.111	0.000

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
38	1.104	1.103	0.091
39	1.096	1.094	0.182
40	1.087	1.084	0.276
41	1.075	1.073	0.186
42	1.061	1.0608	0.019
43	1.044	1.047	-0.287
44	1.017	0.964	5.211
45	0.9578	0.8837	7.736
46	0.7361	0.6787	7.798
47	0.2841	0.3187	-12.179
48	0.174	0.173	0.575
49	0.1279	0.1251	2.189
50	0.1024	0.1025	-0.098
51	0.08602	0.0869	-1.023
52	0.07459	0.0769	-3.097
53	0.0661	0.06865	-3.858
54	0.05946	0.0618	-3.935
55	0.05411	0.0562	-3.863
56	0.04969	0.0516	-3.844
57	0.04596	0.0478	-4.003
58	0.04273	0.0447	-4.610
59	0.03994	0.0421	-5.408
60	0.03749	0.0399	-6.428
61	0.03532	0.0379	-7.305
62	0.034	0.0362	-6.471
63	0.03168	0.0346	-9.217
64	0.03014	0.0331	-9.821
65	0.02878	0.0317	-10.146
66	0.02766	0.0305	-10.268
67	0.02683	0.0295	-9.952
68	0.0261	0.0288	-10.345
69	0.02538	0.0284	-11.899
70	0.02459	0.0285	-15.901

Comparison Graph

