

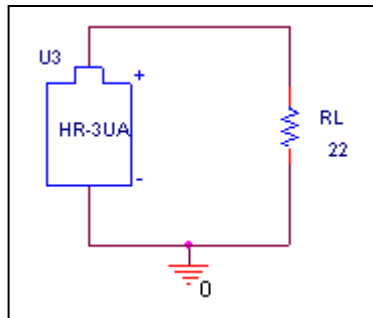
Device Modeling Report

COMPONENTS: NICKEL METAL HYDRIDE (Ni-MH)
PART NUMBER: HR-3UA
MANUFACTURER: SANYO
CONDITION: RL= 22 (Ω)

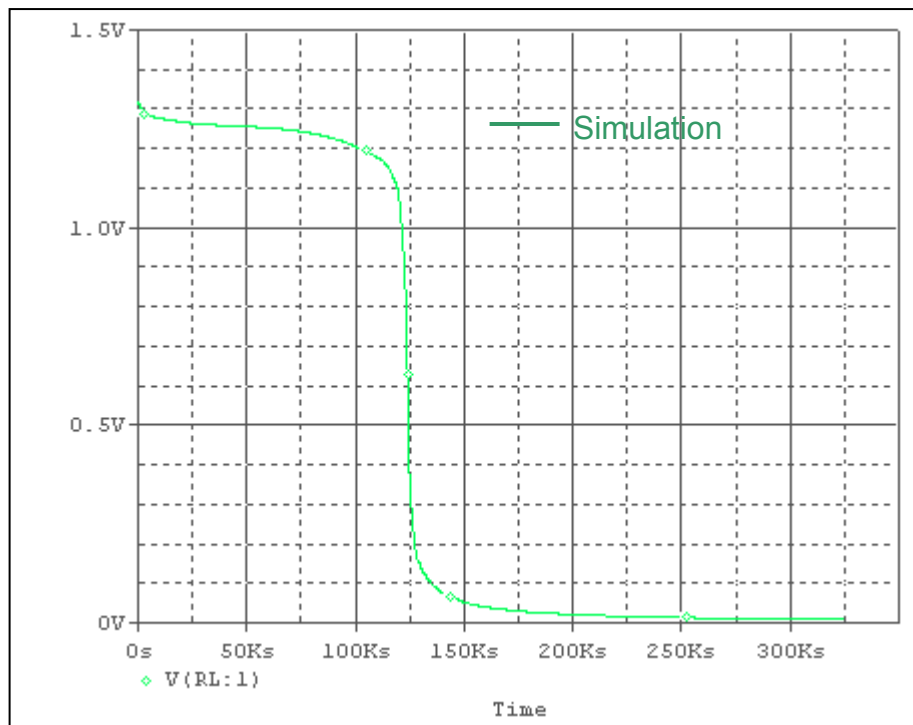


Bee Technologies Inc.

Evaluation circuit



Simulation result



Comparison Table

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
0	1.319147	1.3165	0.201
1	1.305117	1.3057	-0.045
2	1.296614	1.2972	-0.045
3	1.290354	1.2902	0.012
4	1.285605	1.2848	0.063
5	1.281851	1.2814	0.035
6	1.278808	1.2797	-0.070
7	1.276291	1.2802	-0.306
8	1.274245	1.2791	-0.381
9	1.27245	1.2779	-0.428
10	1.270973	1.2767	-0.451
15	1.266792	1.2713	-0.356
20	1.264975	1.2672	-0.176
25	1.26422	1.2639	0.025
30	1.263564	1.2614	0.171
35	1.262655	1.2595	0.250
40	1.261419	1.258	0.271
45	1.259963	1.2566	0.267
50	1.258288	1.2554	0.230
55	1.256297	1.2539	0.191
60	1.253911	1.2522	0.136
65	1.251252	1.2499	0.108
70	1.246622	1.2471	-0.038
75	1.241785	1.2432	-0.114
80	1.236663	1.2385	-0.149
85	1.229747	1.2324	-0.216
90	1.222021	1.2252	-0.260
95	1.21401	1.2163	-0.189
100	1.2059	1.2052	0.058
101	1.20416	1.2023	0.154
102	1.202322	1.2003	0.168
103	1.20033	1.1976	0.227
104	1.198207	1.1953	0.243
105	1.195898	1.1929	0.251
106	1.193359	1.1898	0.298
107	1.190579	1.1867	0.326
108	1.187493	1.1841	0.286
109	1.184024	1.1822	0.154

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
110	1.180193	1.1764	0.321
111	1.175903	1.1751	0.068
112	1.171121	1.1713	-0.015
113	1.165704	1.1673	-0.137
114	1.15963	1.1609	-0.110
115	1.152692	1.1528	-0.009
116	1.144615	1.1433	0.115
117	1.13493	1.1321	0.249
118	1.122815	1.1192	0.322
119	1.106279	1.105	0.116
120	1.079083	1.0884	-0.863
121	1.022088	1.0221	-0.001
122	0.9466572	0.944	0.281
123	0.8521131	0.83769	1.693
124	0.592756	0.595	-0.379
125	0.3620693	0.362	0.019
126	0.2617723	0.27541	-5.210
127	0.2104259	0.21	0.202
128	0.1792141	0.1702	5.030
129	0.1578542	0.1537	2.632
130	0.1419951	0.141	0.701
131	0.1295852	0.13	-0.320
132	0.1195064	0.121	-1.250
133	0.1111034	0.112	-0.807
134	0.1039399	0.105	-1.020
135	0.0977242	0.09875	-1.050
136	0.0922706	0.091	1.377
137	0.0874289	0.087	0.491
138	0.0830842	0.083	0.101
139	0.0791614	0.079	0.204
140	0.0755925	0.075	0.784
145	0.061609	0.06307	-2.371
150	0.0519961	0.051	1.916
155	0.0451439	0.045	0.319
160	0.0400181	0.04	0.045
165	0.0360311	0.03591	0.336
170	0.0327763	0.03251	0.812
175	0.0300282	0.02974	0.960
180	0.0276667	0.02747	0.711
185	0.0256318	0.02553	0.397

Time (kSec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
190	0.02384	0.02382	0.084
195	0.0223045	0.02217	0.603
200	0.0209761	0.02078	0.935
225	0.0160689	0.016	0.429
250	0.0131725	0.01314	0.246
275	0.011233	0.01125	-0.151
300	0.0096089	0.00966	-0.532
325	0.0084391	0.00829	1.767

Comparison Graph

