

Device Modeling Report

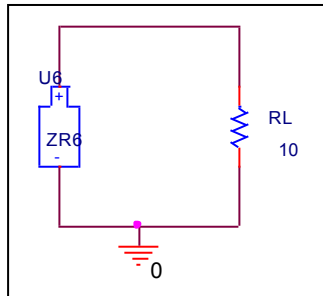
COMPONENTS: Oxyride Cell
PART NUMBER: ZR6
MANUFACTURER: PANASONIC
REMARK: RL= 10(Ω)



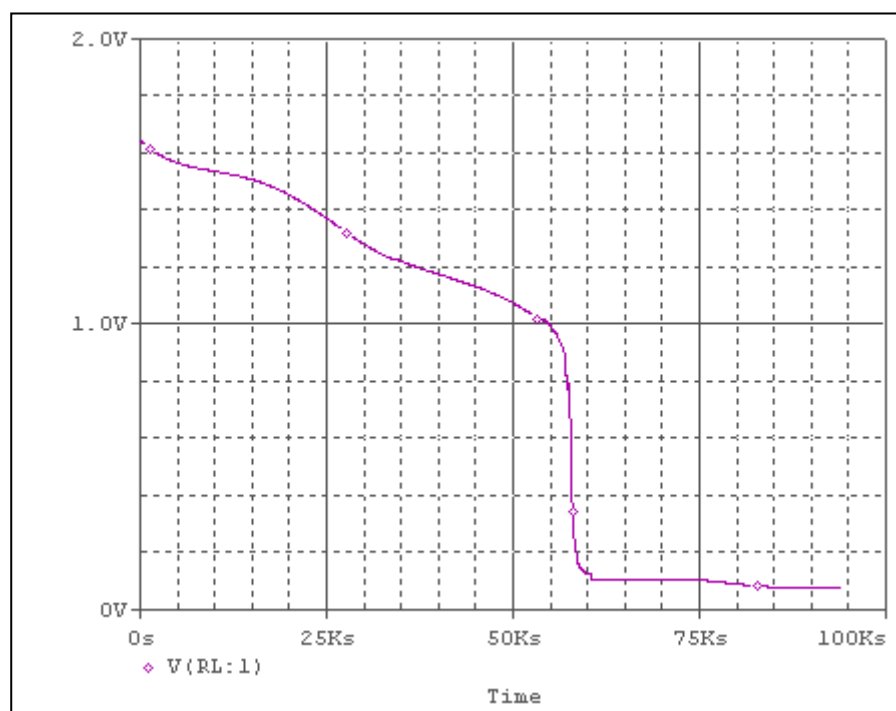
Bee Technologies Inc.

BATTERY Characteristics

Evaluation circuit



Circuit simulation result



Comparison Table

Time(Seconds)	Measurement(V)	Simulation(V)	%Error
500	1.63	1.63	0
1000	1.62	1.62	0
2000	1.60	1.60	0
3000	1.59	1.59	0
4000	1.58	1.57	-0.63291
5000	1.57	1.56	-0.63694
6000	1.56	1.56	0
7000	1.56	1.55	-0.64103
8000	1.55	1.55	0
9000	1.54	1.54	0
10000	1.53	1.53	0
11000	1.53	1.53	0
12000	1.52	1.52	0
13000	1.51	1.52	0.66225
14000	1.5	1.5	0
15000	1.49	1.49	0
16000	1.49	1.49	0
17000	1.49	1.49	0
18000	1.48	1.48	0
19000	1.47	1.46	-0.68027
20000	1.46	1.45	-0.68493
21000	1.45	1.44	-0.68966
22000	1.43	1.42	-0.69930
23000	1.41	1.4	-0.70922
24000	1.39	1.39	0
25000	1.37	1.37	0
26000	1.34	1.35	0.74627
27000	1.33	1.33	0
28000	1.31	1.31	0
29000	1.30	1.29	0.76923
30000	1.28	1.28	0
31000	1.27	1.26	0.78740
32000	1.25	1.25	0
33000	1.24	1.24	0
34000	1.23	1.23	0
35000	1.22	1.22	0
36000	1.21	1.21	0
37000	1.2	1.2	0
38000	1.19	1.19	0
39000	1.18	1.18	0
40000	1.18	1.17	-0.84746
41000	1.17	1.16	-0.85470
42000	1.16	1.16	0
43000	1.15	1.15	0
44000	1.14	1.14	0

45000	1.13	1.13	0
46000	1.12	1.12	0
47000	1.11	1.11	0
48000	1.1	1.1	0
49000	1.09	1.09	0
50000	1.08	1.07	-0.92593
51000	1.06	1.06	0
52000	1.04	1.04	0
53000	1.03	1.02	-0.97087
54000	1	1.01	1.00000
55000	0.976	0.994	1.84426
56000	0.936	0.954	1.92308
57000	0.865	0.884	2.19653
58000	0.322	0.344	6.83230
59000	0.129	0.149	15.50388
60000	0.109	0.127	16.51376
61000	0.103	0.105	1.94175
62000	0.101	0.103	1.98020
63000	0.1	0.102	2.00000
64000	0.1	0.102	2.00000
65000	0.1	0.102	2.00000
66000	0.1	0.102	2.00000
67000	0.1	0.102	2.00000
68000	0.1	0.102	2.00000
69000	0.1	0.102	2.00000
70000	0.1	0.102	2.00000
71000	0.1	0.102	2.00000
72000	0.099	0.102	3.03030
73000	0.099	0.101	-2.02020
74000	0.099	0.101	-2.02020
75000	0.099	0.1	-1.01010
76000	0.098	0.1	-2.04082
77000	0.099	0.099	0
78000	0.1	0.099	1.00000
79000	0.098	0.095	3.06122
80000	0.097	0.095	2.06186
81000	0.094	0.094	0
82000	0.091	0.091	0
83000	0.082	0.085	-3.65854
84000	0.087	0.082	5.74713
85000	0.086	0.08	6.97674
86000	0.086	0.08	6.97674
87000	0.085	0.08	5.88235
88000	0.085	0.08	5.88235
89000	0.085	0.08	5.88235
90000	0.084	0.08	4.76190
91000	0.084	0.08	4.76190

92000	0.085	0.08	-5.88235
93000	0.084	0.08	-4.76190
94000	0.084	0.08	-4.76190

Comparison Graph

