

Device Modeling Report

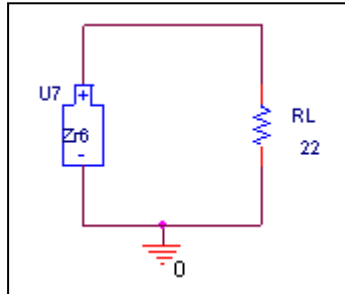
COMPONENTS: Oxyride Cell
PART NUMBER: ZR6
MANUFACTURER: PANASONIC
REMARK: RL= 22(Ω)



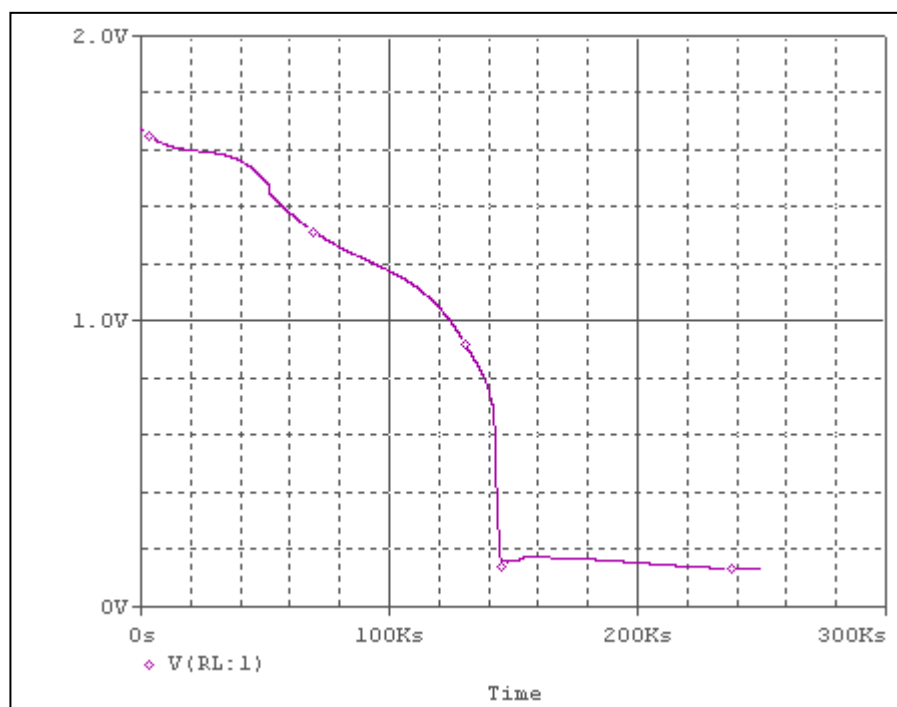
Bee Technologies Inc.

BATTERY Characteristics

Evaluation circuit



Circuit simulation result



Comparison Table

Time(Seconds)	Measurement(V)	Simulation(V)	%Error
500	1.68	1.67	-0.59524
1000	1.66	1.66	0
2000	1.65	1.65	0
3000	1.65	1.65	0
4000	1.64	1.64	0
5000	1.64	1.64	0
6000	1.63	1.63	0
7000	1.63	1.63	0
8000	1.63	1.62	-0.61350
9000	1.62	1.62	0
10000	1.62	1.62	0
11000	1.62	1.61	-0.61728
12000	1.62	1.61	-0.61728
13000	1.61	1.61	0
14000	1.61	1.61	0
15000	1.61	1.6	-0.62112
16000	1.61	1.6	-0.62112
17000	1.61	1.6	-0.62112
18000	1.6	1.6	0
19000	1.6	1.6	0
20000	1.6	1.6	0
21000	1.6	1.59	-0.62500
22000	1.6	1.59	-0.62500
23000	1.59	1.59	0
24000	1.59	1.59	0
25000	1.59	1.59	0
26000	1.59	1.59	0
27000	1.59	1.59	0
28000	1.59	1.59	0
29000	1.59	1.59	0
30000	1.59	1.59	0
31000	1.58	1.58	0
32000	1.58	1.58	0
33000	1.58	1.58	0
34000	1.58	1.58	0
35000	1.58	1.58	0
36000	1.58	1.57	-0.63291
37000	1.57	1.57	0
38000	1.57	1.57	0
39000	1.57	1.56	-0.63694
40000	1.56	1.56	0
41000	1.56	1.55	-0.64103
42000	1.55	1.55	0

43000	1.55	1.54	-0.64516
44000	1.55	1.54	-0.64516
45000	1.54	1.53	-0.64935
46000	1.53	1.52	-0.65359
47000	1.53	1.52	-0.65359
48000	1.52	1.51	-0.65789
49000	1.5	1.5	0
50000	1.49	1.49	0
51000	1.47	1.48	0.68027
52000	1.46	1.44	-1.36986
53000	1.44	1.43	-0.69444
54000	1.43	1.42	-0.69930
55000	1.42	1.42	0
56000	1.41	1.41	0
57000	1.4	1.4	0
58000	1.39	1.39	0
59000	1.38	1.38	0
60000	1.38	1.38	0
61000	1.37	1.37	0
62000	1.36	1.36	0
63000	1.36	1.35	-0.73529
64000	1.35	1.35	0
65000	1.34	1.33	-0.74627
66000	1.34	1.34	0
67000	1.33	1.33	0
68000	1.32	1.32	0
69000	1.32	1.31	-0.75758
70000	1.31	1.31	0.00000
71000	1.31	1.30	-0.76336
72000	1.30	1.30	0.00000
73000	1.29	1.29	0
74000	1.29	1.29	0
75000	1.29	1.28	-0.77519
76000	1.28	1.28	0
77000	1.28	1.27	-0.78125
78000	1.27	1.27	0
79000	1.27	1.26	-0.78740
80000	1.27	1.26	-0.78740
81000	1.26	1.25	-0.79365
82000	1.25	1.25	0
83000	1.25	1.25	0
84000	1.24	1.24	0
85000	1.24	1.24	0
86000	1.23	1.23	0
87000	1.23	1.23	0
88000	1.23	1.22	-0.81301
89000	1.22	1.22	0

90000	1.22	1.22	0
91000	1.21	1.21	0
92000	1.21	1.21	0
93000	1.21	1.2	-0.82645
94000	1.2	1.2	0
95000	1.2	1.2	0
96000	1.19	1.19	0
97000	1.19	1.19	0
98000	1.19	1.18	-0.84034
99000	1.18	1.18	0.00000
100000	1.18	1.17	-0.84746
110000	1.12	1.12	0
120000	1.05	1.05	0
130000	0.926	0.924	-0.21598
140000	0.764	0.758	-0.78534
150000	0.166	0.160	-3.61446
160000	0.172	0.172	0
170000	0.17	0.17	0
180000	0.167	0.166	-0.59880
190000	0.162	0.160	-1.23457
200000	0.153	0.153	0.00000
210000	0.146	0.147	0.68493
220000	0.141	0.141	0
230000	0.137	0.136	-0.72993
240000	0.135	0.134	-0.74074
250000	0.133	0.134	0.75188

Comparison Graph

