

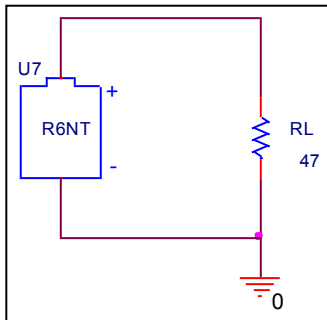
Device Modeling Report

COMPONENTS: Manganese Cell
PART NUMBER: R6NT
MANUFACTURER: PANASONIC
CONDITION: $RL=47(\Omega)$

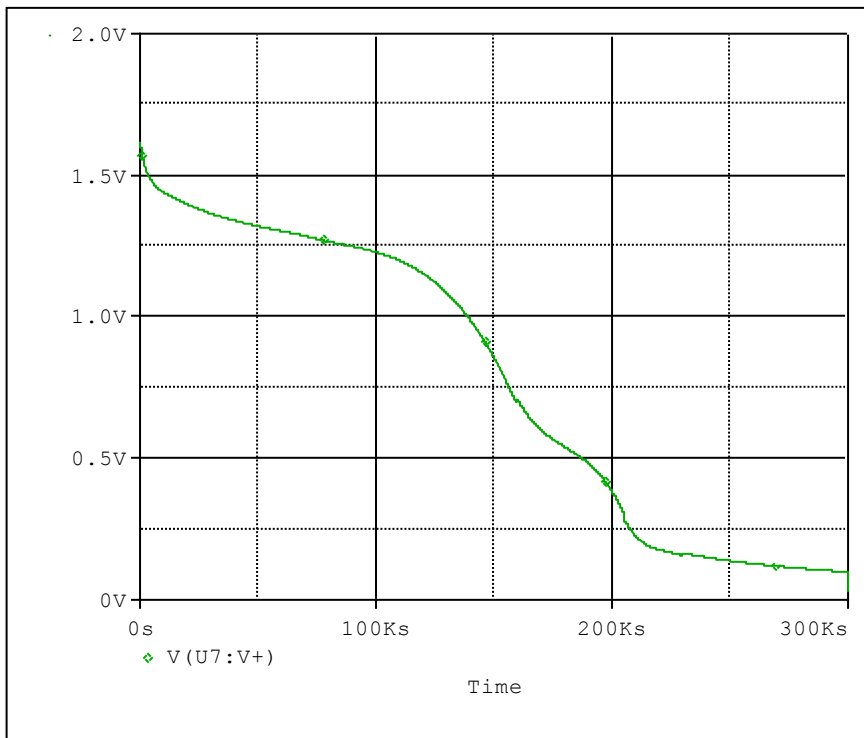


Bee Technologies Inc.

Evaluation Circuit



Simulation result



Comparison Table

Time (Sec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
10.136	1.6196	1.6171	-0.1550
500.002	1.5893	1.5911	0.1107
1000.002	1.5663	1.5684	0.1339
1500.002	1.5484	1.5492	0.0546
2000.002	1.5337	1.5331	-0.0385
3000.002	1.5108	1.5086	-0.1424
4000.002	1.4930	1.4917	-0.0871
5000.002	1.4783	1.4792	0.0621
6000.002	1.4656	1.4678	0.1517
7000.002	1.4557	1.4545	-0.0850
8000.002	1.4493	1.4496	0.0175
10000.002	1.4356	1.4398	0.2956
12000.002	1.4312	1.4305	-0.0490
14000.002	1.4233	1.4216	-0.1171
16000.002	1.4147	1.4132	-0.1059
18000.002	1.4063	1.4052	-0.0769
20000.002	1.3981	1.3976	-0.0331
25000.002	1.3795	1.3803	0.0594
30000.002	1.3639	1.3651	0.0858
35000.002	1.3508	1.3517	0.0660
40000.002	1.3396	1.3399	0.0248
45000.002	1.3295	1.3294	-0.0075
50000.002	1.3204	1.3199	-0.0342
55000.002	1.3117	1.3111	-0.0445
60000.002	1.3030	1.3027	-0.0259
65000.002	1.2944	1.2945	0.0092
70000.002	1.2858	1.2858	0.0033
80000.002	1.2678	1.2655	-0.1839
85000.002	1.2585	1.2570	-0.1172
90000.002	1.2483	1.2485	0.0136
95000.002	1.2367	1.2391	0.1980
100000.002	1.2240	1.2282	0.3448
105000.002	1.2102	1.2149	0.3901
110000.002	1.1946	1.1983	0.3119
120000.002	1.1562	1.1525	-0.3167
130000.002	1.1005	1.0844	-1.4659
140000.002	1.0041	0.9877	-1.6343
145500.002	0.9211	0.9200	-0.1223
147000.002	0.8940	0.8996	0.6224

Time (Sec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
149000.002	0.8571	0.8695	1.4518
150000.002	0.8391	0.8560	2.0229
155000.002	0.7592	0.7751	2.0921
159000.002	0.7107	0.7024	-1.1774
160000.002	0.6995	0.6980	-0.2195
165000.002	0.6476	0.6422	-0.8349
170000.002	0.6018	0.5982	-0.5866
172000.002	0.5860	0.5854	-0.1005
180000.002	0.5322	0.5360	0.7155
185000.002	0.5043	0.5132	1.7586
190000.002	0.4786	0.4819	0.6776
195000.002	0.4446	0.4402	-0.9925
200000.002	0.3863	0.3823	-1.0470
205000.002	0.2964	0.2907	-1.9358
210000.002	0.2355	0.2256	-4.2081
215000.002	0.2052	0.1928	-6.0589
220000.002	0.1871	0.1766	-5.6127
230000.002	0.1656	0.1626	-1.8032
240000.002	0.1496	0.1501	0.3724
250000.002	0.1397	0.1381	-1.1465
260000.002	0.1260	0.1276	1.2269
270000.002	0.1191	0.1187	-0.3038
275000.002	0.1153	0.1148	-0.4133
280000.002	0.1110	0.1112	0.1660
290000.002	0.1042	0.1045	0.3063
299990.002	0.0984	0.0988	0.3730

Comparison Graph

