

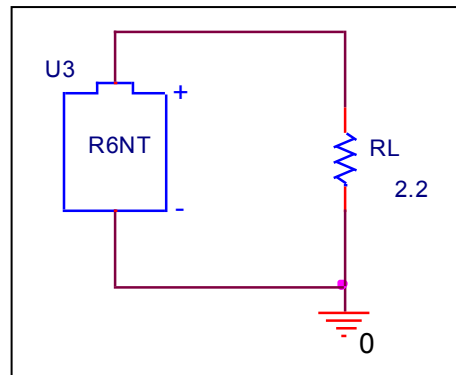
Device Modeling Report

COMPONENTS: Manganese Cell
PART NUMBER: R6NT
MANUFACTURER: PANASONIC
CONDITION: $RL = 2.2(\Omega)$

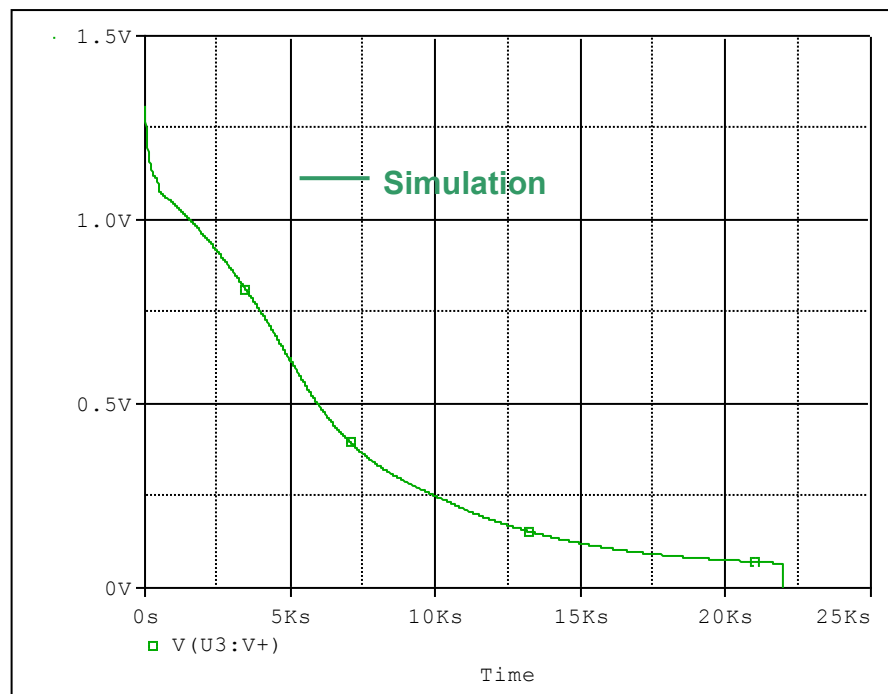


Bee Technologies Inc.

Evaluation Circuit



Simulation result



Comparison Table

Time (Sec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
10.00	1.30112	1.2953	-0.44731
50.00	1.23442	1.2441	0.78417
100.00	1.19252	1.1962	0.30859
150.00	1.16634	1.1642	-0.18348
200.00	1.14775	1.1318	-1.38968
300.00	1.12526	1.1098	-1.37390
400.00	1.10242	1.0778	-2.23327
500.00	1.08515	1.0746	-0.97222
600.00	1.07321	1.0682	-0.46682
700.00	1.05954	1.0622	0.25105
800.00	1.05206	1.0566	0.43153
1000.00	1.03957	1.0399	0.03174
1200.00	1.02444	1.0270	0.24989
1400.00	1.00949	1.0107	0.11986
1600.00	0.9939	0.994952	0.10585
1800.00	0.97729	0.975574	-0.17559
2000.00	0.96037	0.959488	-0.09184
2200.00	0.94411	0.941097	-0.31914
2400.00	0.92595	0.92352	-0.26243
2600.00	0.90726	0.902735	-0.49875
2800.00	0.88742	0.881699	-0.64468
3000.00	0.86603	0.860116	-0.68289
3200.00	0.84324	0.841151	-0.24773
3400.00	0.8192	0.818763	-0.05334
3600.00	0.7947	0.796375	0.21077
3800.00	0.77007	0.771457	0.18011
4000.00	0.74584	0.746068	0.03057
4200.00	0.72146	0.722034	0.07956
4400.00	0.69662	0.695122	-0.21504
4600.00	0.67135	0.668444	-0.43286
4800.00	0.64503	0.644201	-0.12852
5000.00	0.61928	0.620429	0.18554
5200.00	0.59349	0.594883	0.23471
5400.00	0.56848	0.565642	-0.49923
5600.00	0.54429	0.538562	-1.05238
5800.00	0.5208	0.515573	-1.00365
6000.00	0.49834	0.494321	-0.80648
6200.00	0.47592	0.471586	-0.91066

Time (Sec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
6400.00	0.45424	0.452985	-0.27629
6600.00	0.43382	0.434968	0.26463
6800.00	0.41518	0.416910	0.41669
7000.00	0.39841	0.399787	0.34562
7200.00	0.38322	0.38676	0.92375
7400.00	0.36938	0.371002	0.43911
7600.00	0.35655	0.358209	0.46529
7800.00	0.34459	0.345252	0.19211
8000.00	0.33319	0.334612	0.42678
8200.00	0.32283	0.323252	0.13072
8400.00	0.31328	0.313948	0.21323
8600.00	0.30458	0.303838	-0.24361
8800.00	0.29646	0.295726	-0.24759
9000.00	0.28873	0.286814	-0.66360
9200.00	0.28122	0.278483	-0.97326
9400.00	0.27365	0.271248	-0.87776
9600.00	0.26612	0.264366	-0.65910
9800.00	0.25836	0.255864	-0.96609
10000.00	0.25022	0.2501	-0.04796
10500.00	0.23054	0.232234	0.73480
11000.00	0.21308	0.211755	-0.62183
11500.00	0.19767	0.197104	-0.28634
12000.00	0.1834	0.183452	0.02835
12500.00	0.17056	0.16951	-0.61562
13000.00	0.15936	0.157858	-0.94252
13500.00	0.14804	0.147279	-0.51405
14000.00	0.13777	0.137882	0.08129
14500.00	0.12861	0.12891	0.23326
15000.00	0.12032	0.120845	0.43634
15500.00	0.11365	0.113621	-0.02552
16000.00	0.10764	0.107493	-0.13657
16500.00	0.10197	0.101715	-0.25007
17000.00	0.09713	0.095949	-1.21590
17500.00	0.09233	0.092023	-0.33250
18000.00	0.08825	0.088177	-0.08272
18500.00	0.08512	0.084551	-0.66847
19000.00	0.08137	0.081306	-0.07865
19500.00	0.07828	0.078521	0.30787
20000.00	0.07589	0.075824	-0.08697
20500.00	0.07319	0.07331	0.16396

Time (Sec)	Vdc(V) Measurement	Vdc(V) Simulation	%Error
21000.00	0.07109	0.070913	-0.24898
21500.00	0.06852	0.068688	0.24518
22000.00	0.06659	0.066451	-0.20874

Comparison Graph

