

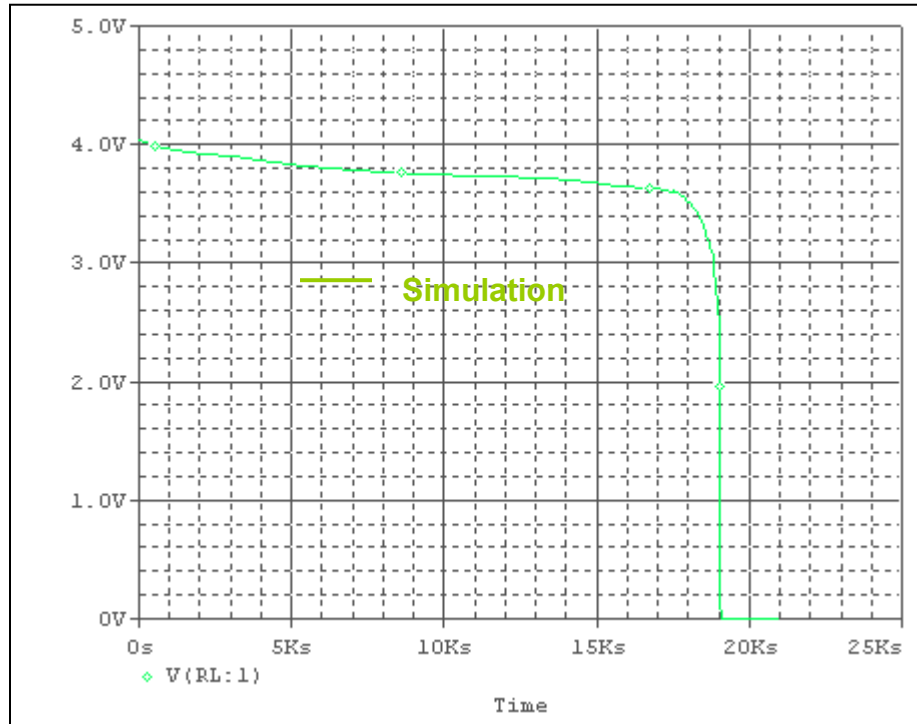
# Device Modeling Report

COMPONENTS: Lithium-ion  
PART NUMBER:BLB-2  
MANUFACTURER: NOKIA  
CONDITION :RL= 33 ( $\Omega$ )



**Bee Technologies Inc.**

## Simulation result



## Comparison Table

Time(kSeconds)	Vdc(V) Measurement	Vdc(V) Simulation	% Error
0.00	4.03103	4.0370	0.14810
0.10	4.02784	4.0288	0.02383
0.20	4.02027	4.0172	-0.07636
0.30	4.01200	4.0053	-0.16700
0.40	4.00299	3.9999	-0.07719
0.50	3.99377	3.9895	-0.10692
0.60	3.98509	3.9848	-0.00728
0.70	3.97730	3.9794	0.05280
0.80	3.97026	3.9718	0.03879
0.90	3.96402	3.9633	-0.01816
1.00	3.95846	3.9606	0.05406
1.10	3.95340	3.9546	0.03035
1.20	3.94891	3.9509	0.05039
1.30	3.94485	3.9458	0.02408
1.40	3.94121	3.9427	0.03781
1.50	3.93800	3.9383	0.00762
1.60	3.93512	3.9356	0.01220
1.70	3.93257	3.9318	-0.01958
1.80	3.93017	3.9295	-0.01705
1.90	3.92792	3.9296	0.04277
2.00	3.92565	3.9241	-0.03948
2.10	3.92338	3.9211	-0.05811
2.20	3.92108	3.9192	-0.04795
2.30	3.91869	3.9164	0.05844
2.40	3.91623	3.9146	0.04162
2.50	3.91365	3.9119	0.04472
2.60	3.91091	3.9100	0.02327
2.70	3.90801	3.9073	0.01817
2.80	3.90501	3.9054	-0.00999
2.90	3.90195	3.9020	-0.00128
3.10	3.89879	3.9003	-0.03873
3.20	3.89232	3.8947	-0.06115
3.40	3.88573	3.8882	-0.06357
3.60	3.87891	3.8808	-0.04873
3.80	3.87206	3.8721	-0.00103
4.00	3.86497	3.8652	-0.00595
4.20	3.85799	3.8578	0.00492
4.40	3.85105	3.8508	0.00649
4.60	3.84425	3.8441	0.00390
4.80	3.83774	3.8377	0.00104
5.00	3.83152	3.8316	-0.00209

5.20	3.82524	3.8258	-0.01464
5.40	3.81984	3.8203	-0.01204
5.60	3.81474	3.8151	-0.00944
5.80	3.80989	3.8101	-0.00551
6.00	3.80529	3.8054	-0.00289
6.20	3.80091	3.8009	0.00026
6.40	3.79671	3.7966	0.00290
6.60	3.79273	3.7926	0.00343
6.80	3.78891	3.7887	0.00554
7.00	3.78524	3.7850	0.00634
7.20	3.78168	3.7815	0.00476
7.40	3.77825	3.7782	0.00132
7.60	3.77501	3.7750	0.00026
7.80	3.77188	3.7719	-0.00053
8.00	3.76884	3.7689	-0.00159
8.20	3.76595	3.7661	-0.00398
8.40	3.76319	3.7633	-0.00292
8.60	3.76049	3.7607	-0.00558
8.80	3.75789	3.7581	-0.00559
9.00	3.75537	3.7555	-0.00346
9.20	3.75281	3.7530	-0.00506
9.40	3.75038	3.7505	-0.00320
9.60	3.74800	3.7481	-0.00267
9.80	3.74544	3.7456	-0.00427
10.00	3.74346	3.7362	0.19394
10.20	3.74161	3.7415	0.00294
10.40	3.73987	3.7398	0.00187
10.60	3.73831	3.7383	0.00027
10.80	3.73686	3.7369	-0.00107
11.00	3.73551	3.7355	0.00027
11.50	3.73237	3.7321	0.00723
12.00	3.72894	3.7288	0.00375
12.50	3.72467	3.7243	0.00993
13.00	3.71893	3.7191	-0.00457
13.50	3.71155	3.7115	0.00135
14.00	3.70287	3.7023	0.01539
14.50	3.69000	3.6895	0.01355
15.00	3.67464	3.6746	0.00109
15.50	3.65530	3.6505	0.13132
16.00	3.64699	3.6426	0.12037
16.50	3.64039	3.6366	0.10411
17.00	3.62929	3.6248	0.12372
17.50	3.60052	3.6110	-0.29107
18.00	3.50743	3.5180	-0.30136
18.10	3.47938	3.4846	-0.15003

18.20	3.44763	3.4512	-0.10355
18.30	3.41159	3.4146	-0.08823
18.40	3.37013	3.3808	-0.31660
18.50	3.32168	3.3245	-0.08490
18.80	3.08354	3.0712	0.40019
18.90	2.83086	2.7863	1.57408
19.00	2.47968	2.4697	0.40247
19.01	2.44784	2.4380	0.40199
19.02	2.41679	2.4063	0.43405
19.03	2.38671	2.3588	1.16939
19.04	2.35751	2.3430	0.61548
19.05	2.32935	2.3905	-2.62520
19.06	0.00000	0.0000	0
19.10	0.00000	0.0000	0
19.20	0.00000	0.0000	0
19.40	0.00000	0.0000	0
19.60	0.00000	0.0000	0
19.80	0.00000	0.0000	0
20.00	0.00000	0.0000	0
20.20	0.00000	0.0000	0
20.40	0.00000	0.0000	0
20.60	0.00000	0.0000	0
20.80	0.00000	0.0000	0
21.00	0.00000	0.0000	0

## Comparison Graph

