Does Michael Faraday's Law of Induction concern itself with the conversion (consumption / conservation) of alternating (A/C) power or with the generation of alternating power?

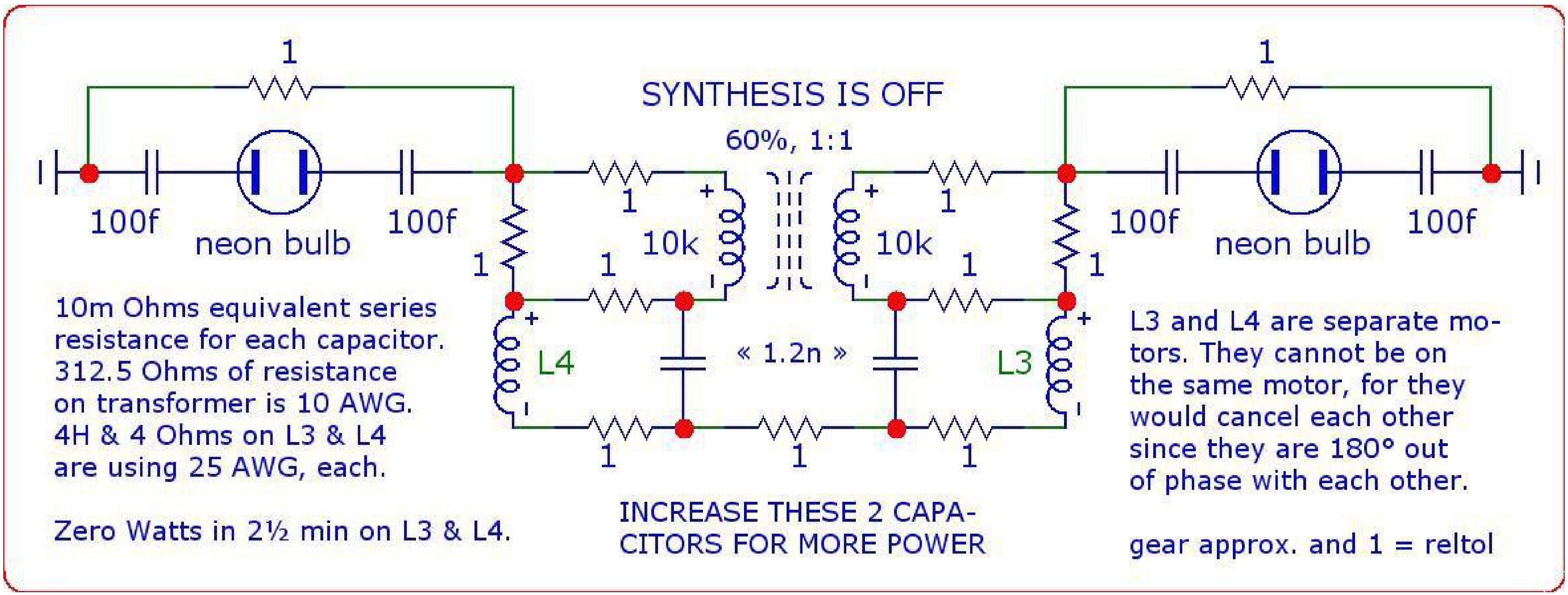
I think it is the former. The latter condition of the synthesis (generation) of power is a standing wave which cannot dissipate, ie. it cannot exit the circuit as: heat, or light, or mechanical motion of a coil unless it is first converted. But for this conversion to occur, it can no longer exhibit a standing wave pattern in which its phase of voltage and its phase of current are diametrically opposed in polarity (with 180° of separation between them). Instead, in order for conversion to occur, it must realign the phase polarities of its voltage and current to exhibit a maximum power factor to manifest, and maximize, the output of this conversion of power. Otherwise, the standing wave pattern will force a constant build up of reactive power which will, eventually, destroy the circuit which hosts this condition.

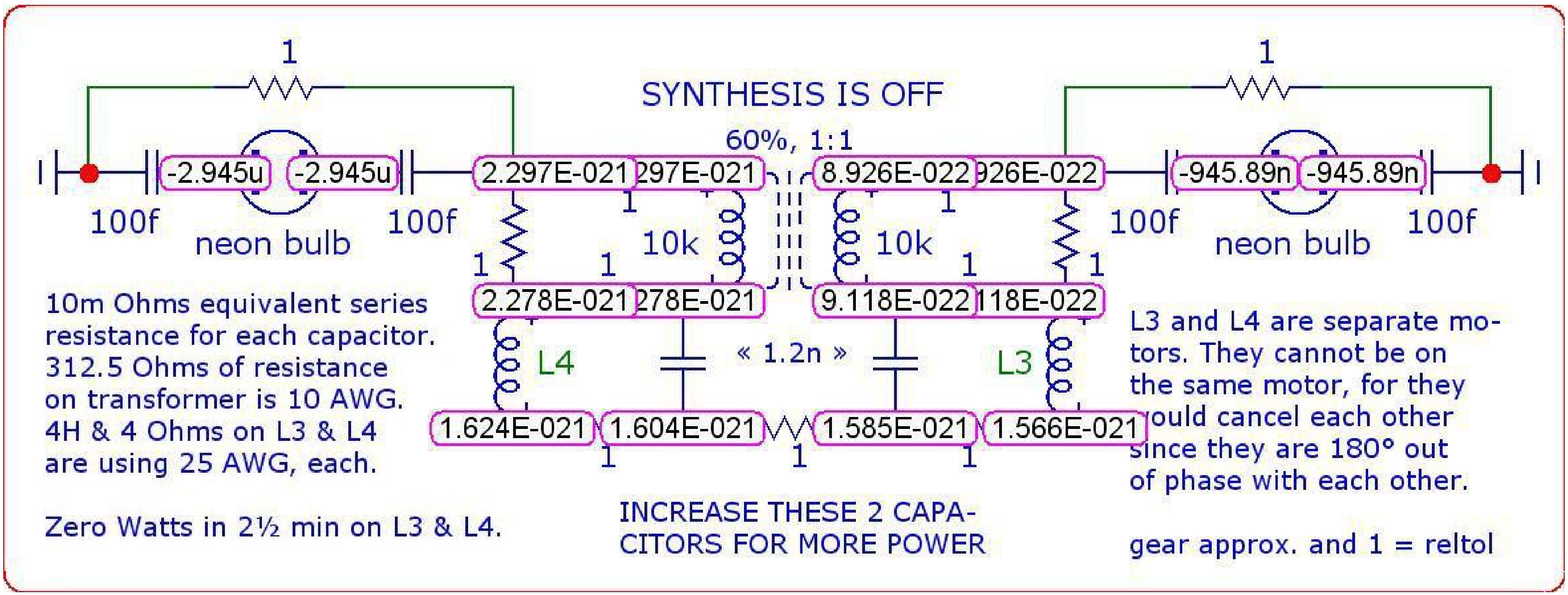
Hence, Michael Faraday's Law of Induction is a narrow niche, for it merely defines the consumption of power while ignoring its generation.

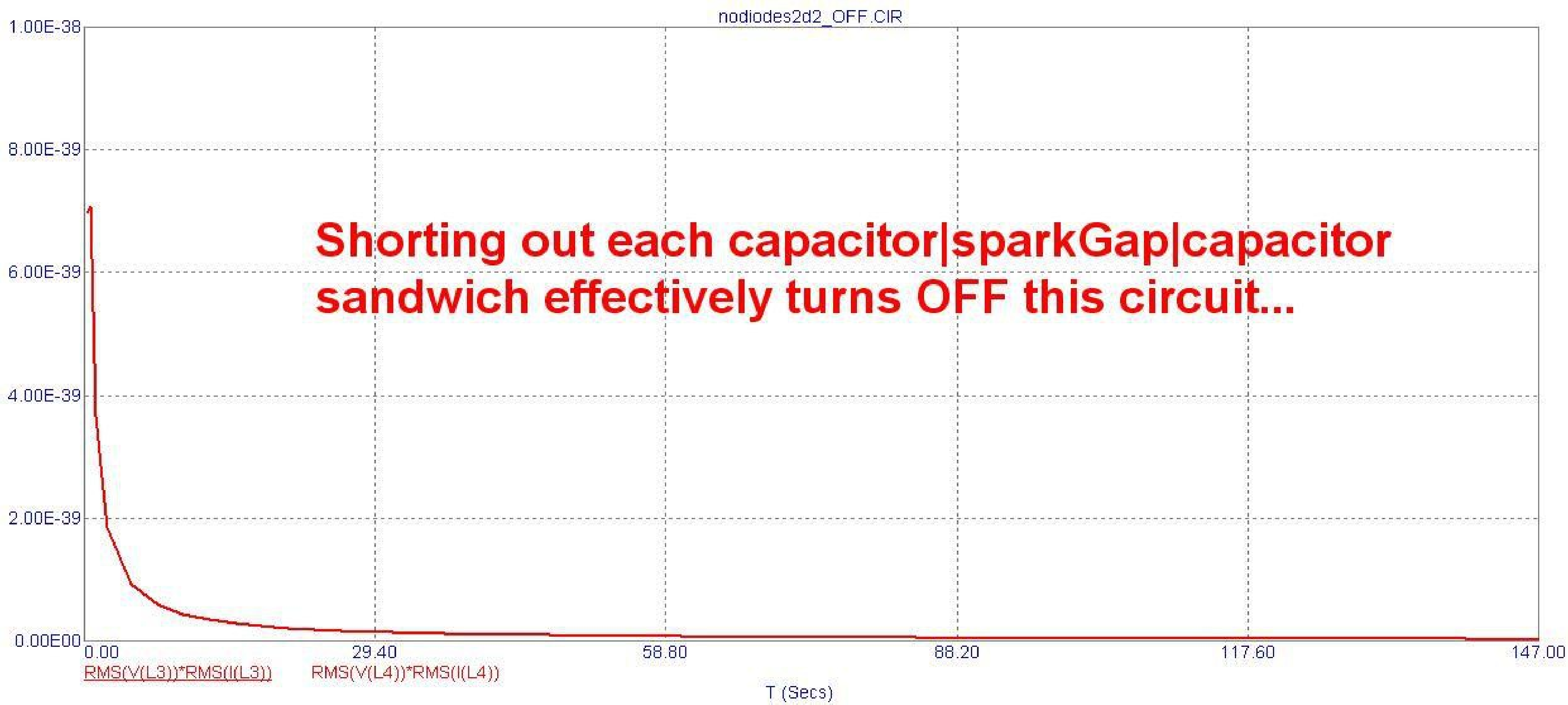
Energy is always moving, ie. undergoing changes, but standing waves of energy do not move. Their energy moves, yet their wave pattern does not move.

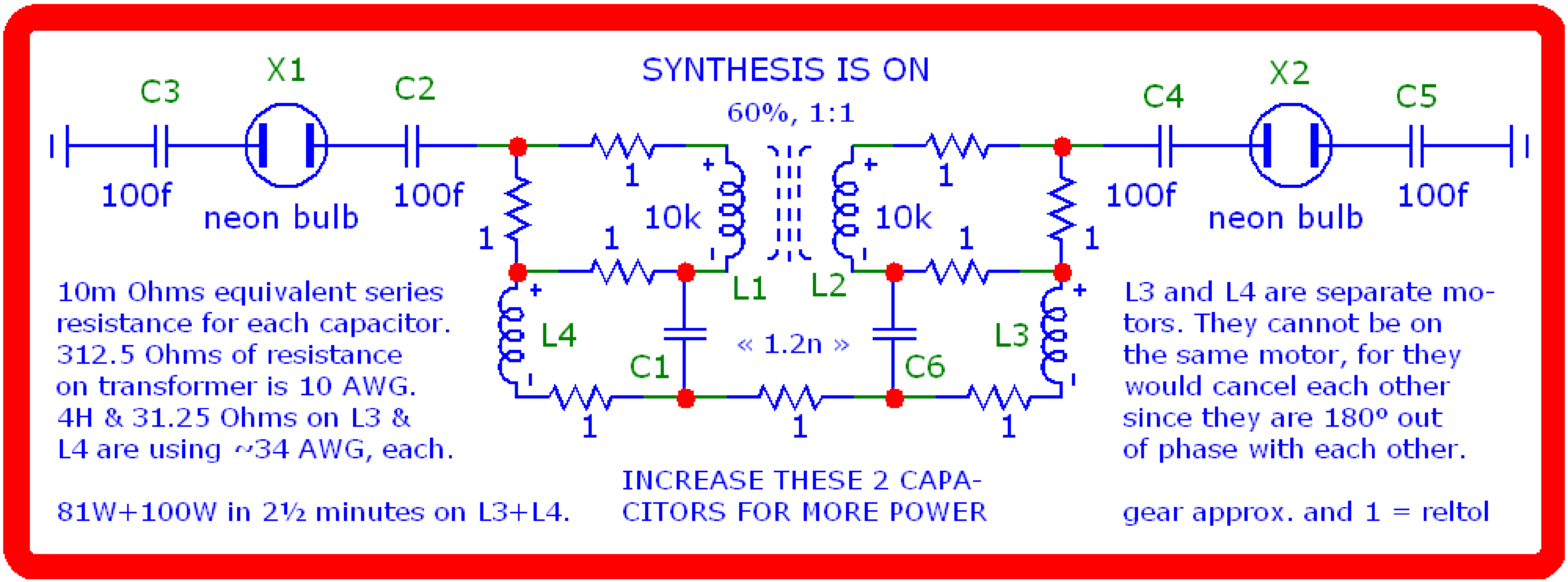
It is only a moving wave pattern which can be conserved. Everybody is so focused on the conservation of energy while ignoring the non-conservation of their standing waves. For, it is their patterns, not their energy, which defines the consumption or the generation of power.

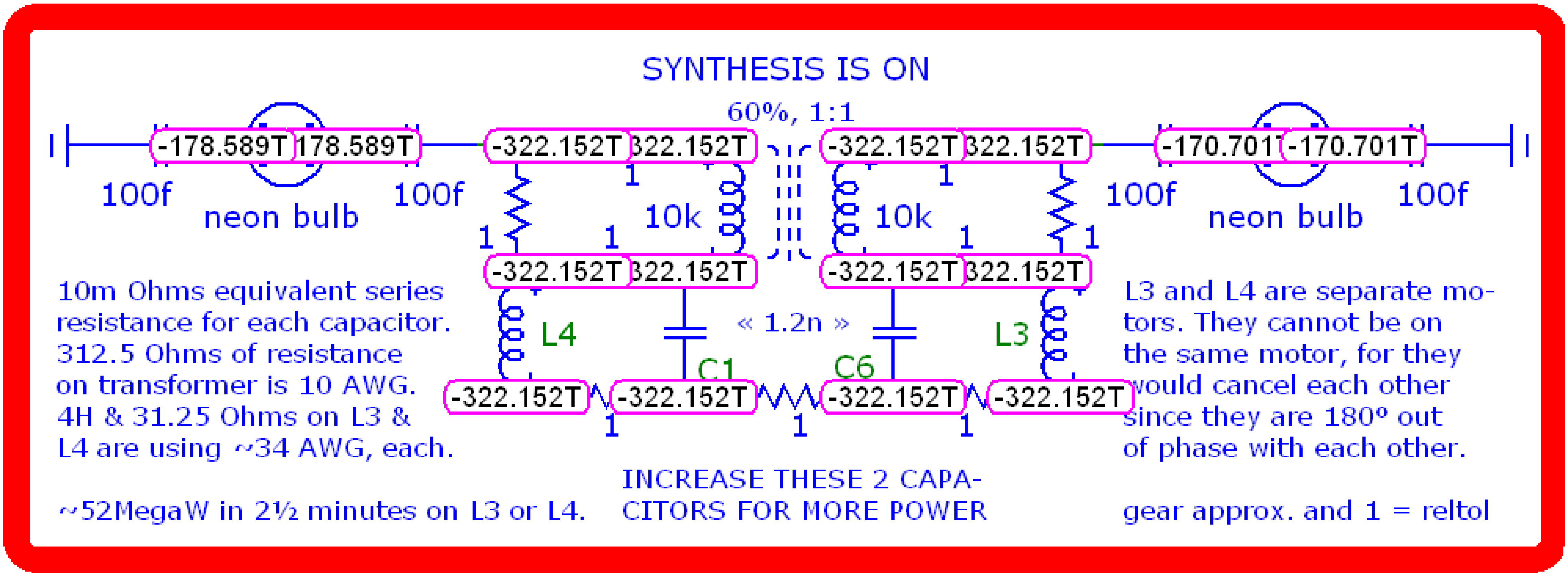
Here is the data in the format of screenshots of the simulation of a circuit in Micro-Cap – which is a flavor of Berkeley SPICE authored by Spectrum-Soft...

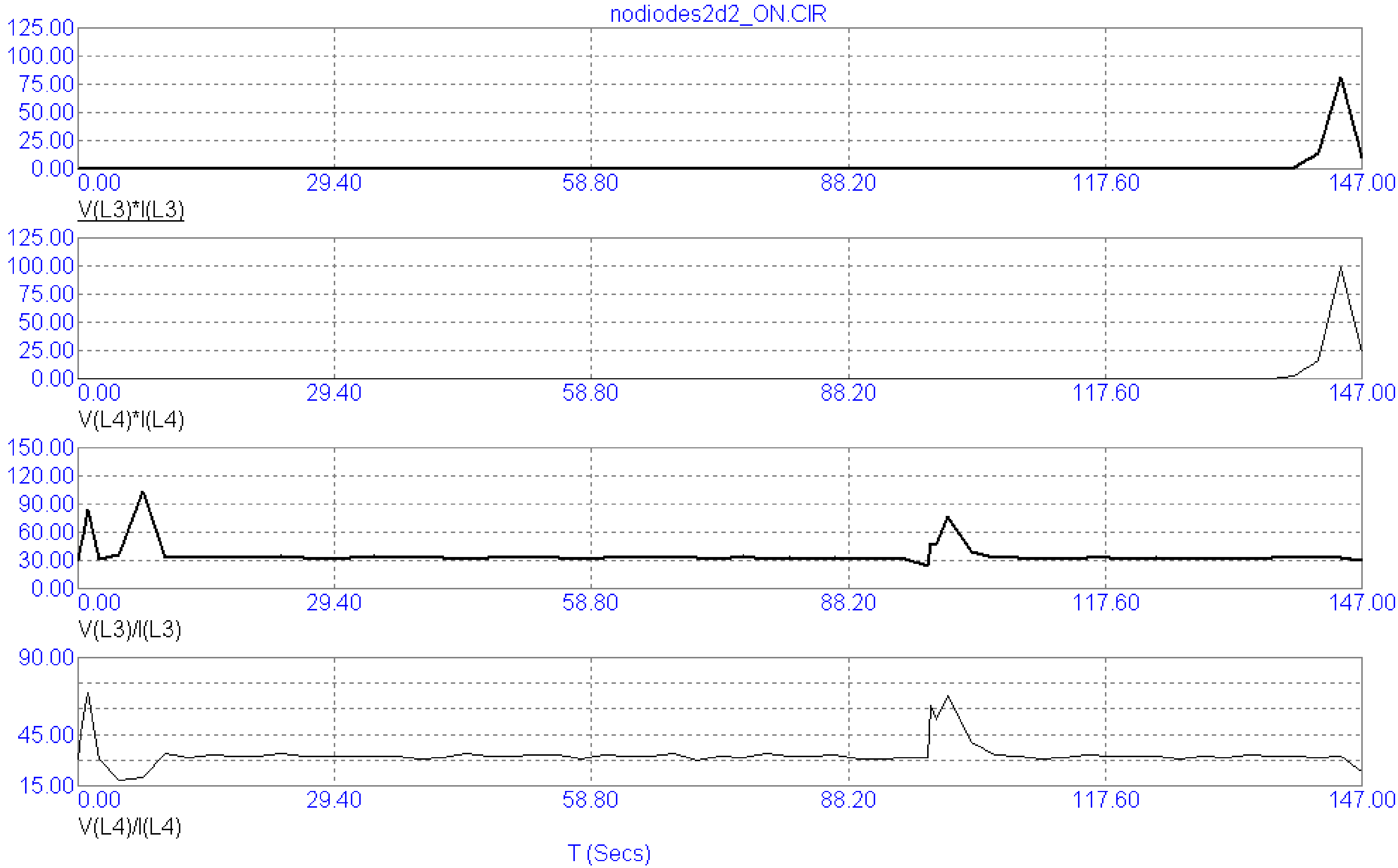

SYNTHESIS IS OFF
60%, 1:1
1
1
1
1
1
1
1
1
1
1
1
1
100f
neon bulb
100f
100f
neon bulb
100f
10k
10k
+
-
L4
L3
« 1.2n »
10m Ohms equivalent series
resistance for each capacitor.
312.5 Ohms of resistance
on transformer is 10 AWG.
4H & 4 Ohms on L3 & L4
are using 25 AWG, each.
Zero Watts in 2½ min on L3 & L4.
INCREASE THESE 2 CAPA-
CITORS FOR MORE POWER
L3 and L4 are separate mo-
tors. They cannot be on
the same motor, for they
would cancel each other
since they are 180° out
of phase with each other.
gear approx. and 1 = reltol

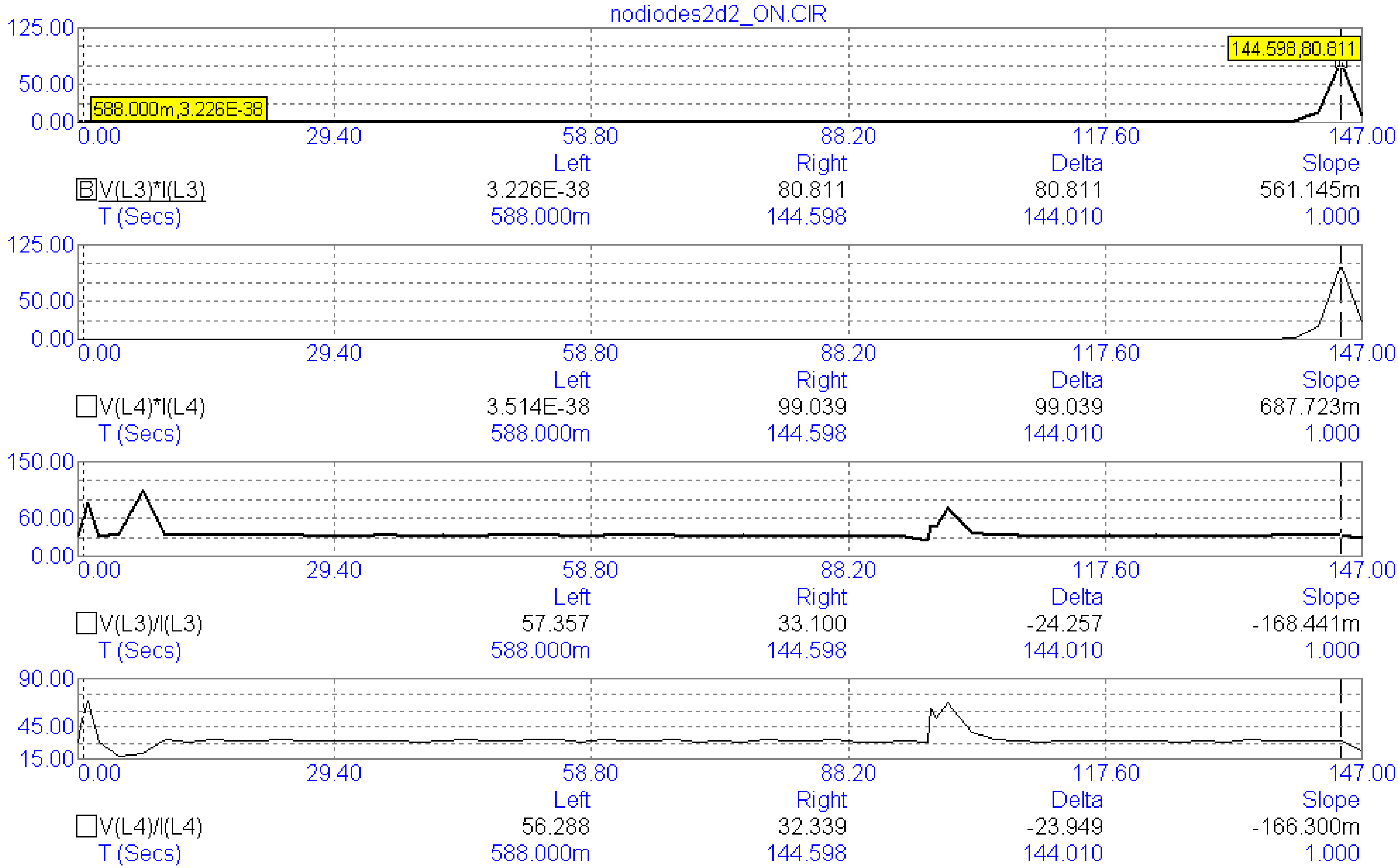

SYNTHESIS IS OFF
1
1
60%, 1:1
-2.945u
-2.945u
2.297E-021
297E-021
8.926E-022
926E-022
-945.89n
-945.89n
100f
neon bulb
100f
10k
10k
100f
neon bulb
100f
2.278E-021
278E-021
9.118E-022
118E-022
L4
« 1.2n »
L3
1.624E-021
1.604E-021
1.585E-021
1.566E-021
10m Ohms equivalent series resistance for each capacitor. 312.5 Ohms of resistance on transformer is 10 AWG. 4H & 4 Ohms on L3 & L4 are using 25 AWG, each.
Zero Watts in 2½ min on L3 & L4.
INCREASE THESE 2 CAPA-CITORS FOR MORE POWER
L3 and L4 are separate motors. They cannot be on the same motor, for they would cancel each other since they are 180° out of phase with each other.
gear approx. and 1 = reltol

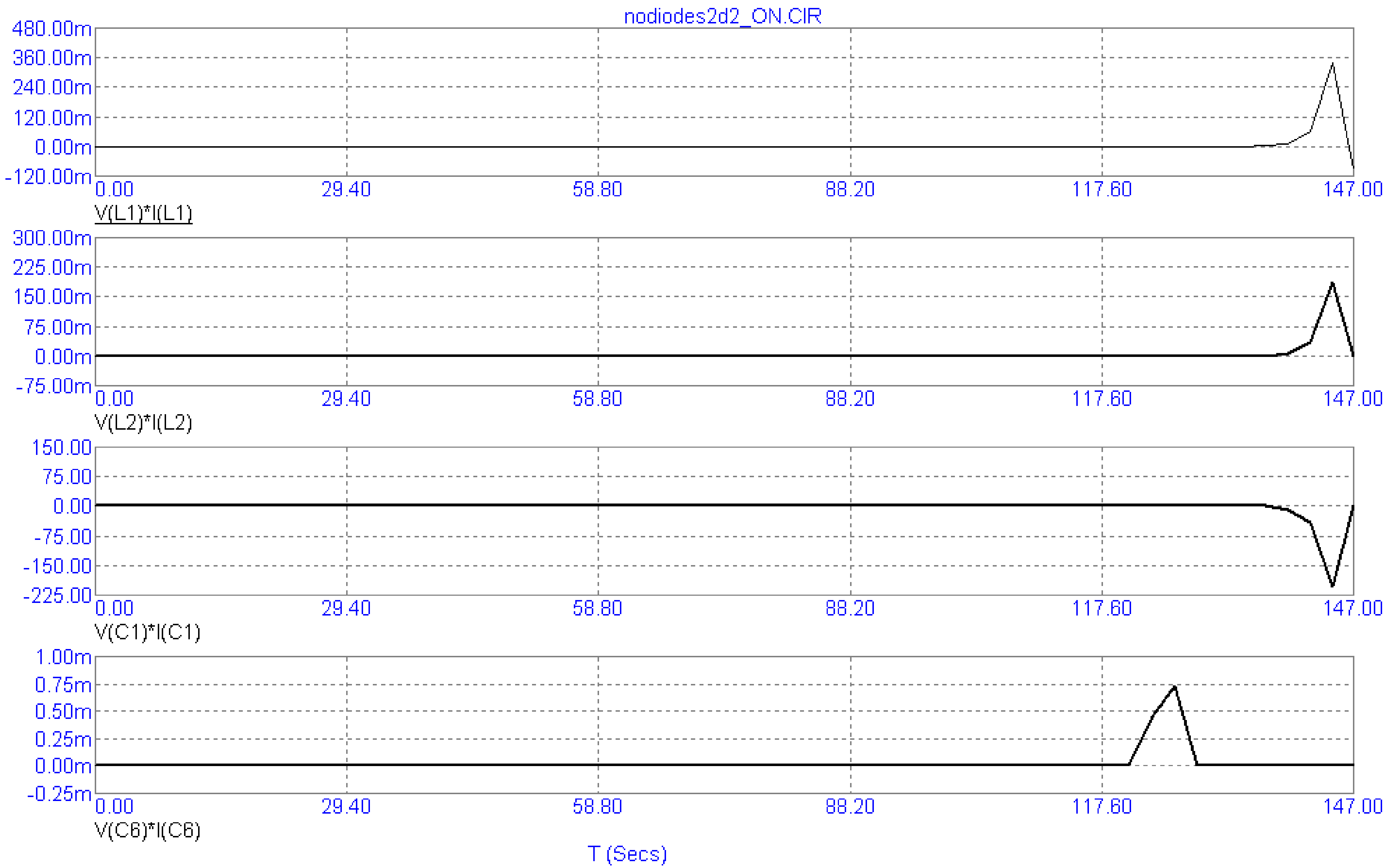

nodiodes2d2_OFF.CIR
Shorting out each capacitor|sparkGap|capacitor sandwich effectively turns OFF this circuit...
1.00E-38
8.00E-39
6.00E-39
4.00E-39
2.00E-39
0.00E00
0.00
29.40
58.80
88.20
117.60
147.00
RMS(V(L3))*RMS(I(L3))
RMS(V(L4))*RMS(I(L4))
T (Secs)

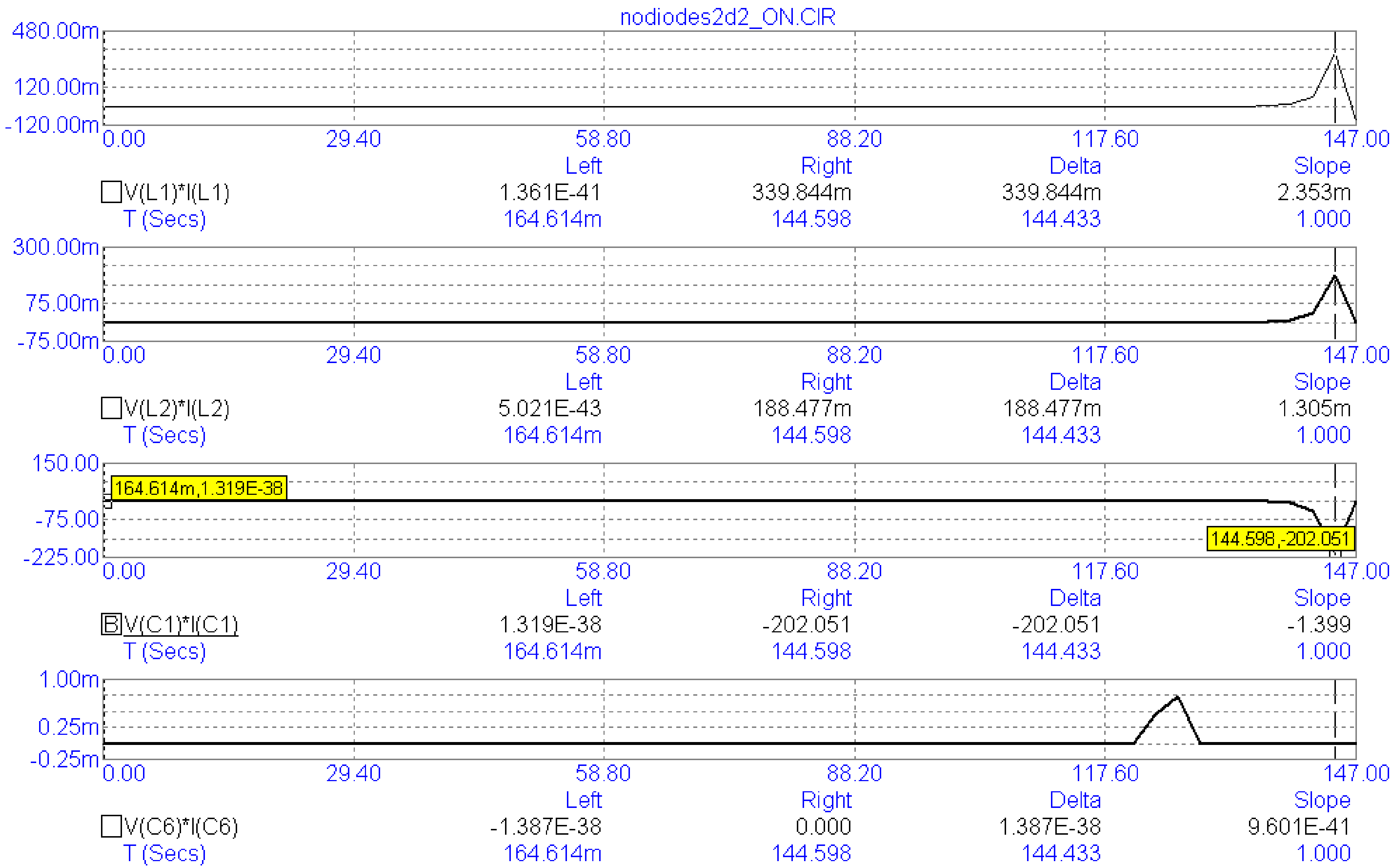

SYNTHESIS IS ON
60%, 1:1
C3
X1
C2
C4
X2
C5
100f
neon bulb
100f
100f
neon bulb
100f
1
10k
10k
1
L1
L2
L4
L3
C1
C6
« 1.2n »
10m Ohms equivalent series resistance for each capacitor. 312.5 Ohms of resistance on transformer is 10 AWG. 4H & 31.25 Ohms on L3 & L4 are using ~34 AWG, each.
81W+100W in 2½ minutes on L3+L4.
INCREASE THESE 2 CAPACITORS FOR MORE POWER
L3 and L4 are separate motors. They cannot be on the same motor, for they would cancel each other since they are 180º out of phase with each other.
gear approx. and 1 = reltol

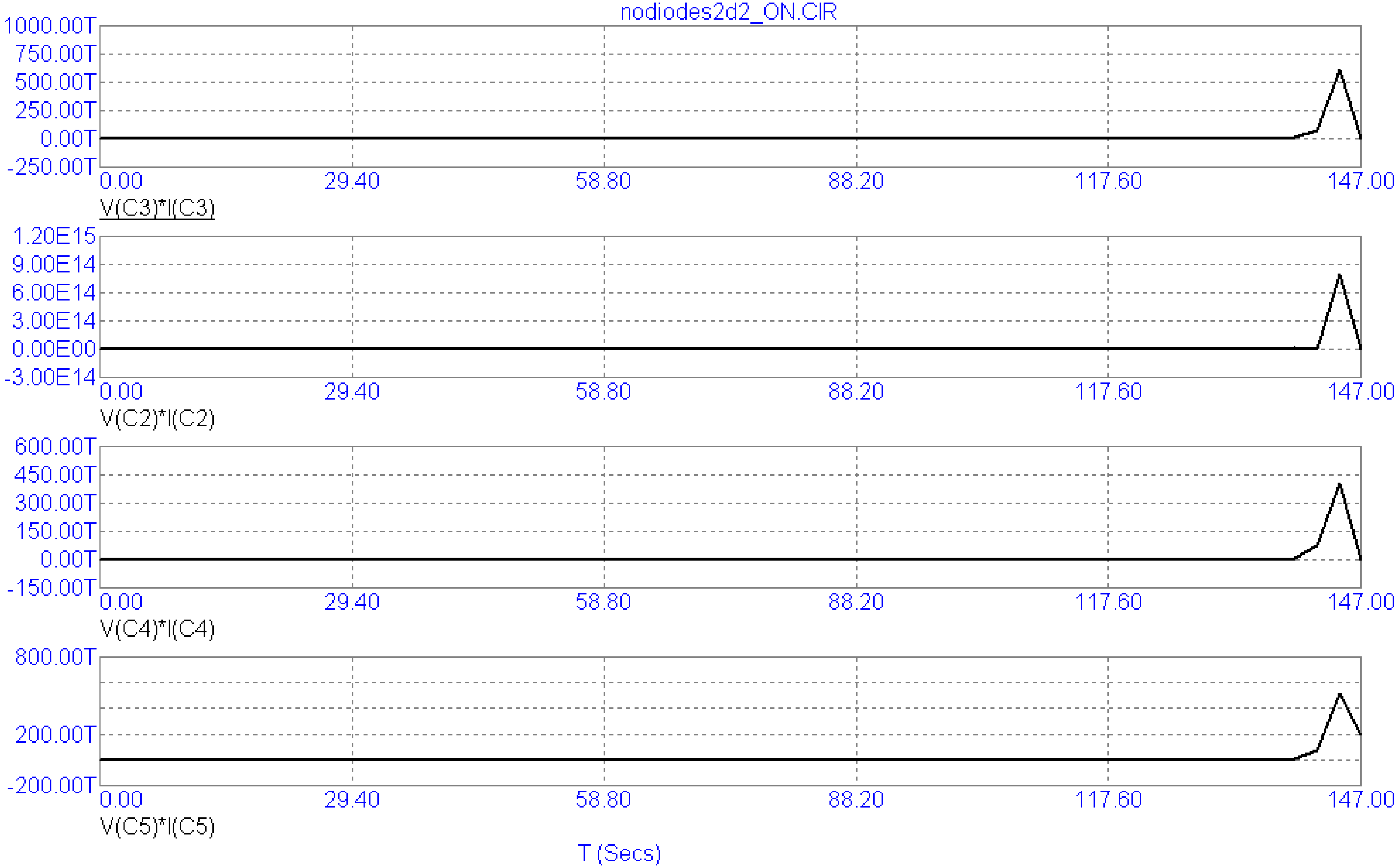

SYNTHESIS IS ON
60%, 1:1
-178.589T
178.589T
-322.152T
322.152T
-170.701T
100f
neon bulb
10k
1
« 1.2n »
L4
L3
C1
C6
10m Ohms equivalent series resistance for each capacitor. 312.5 Ohms of resistance on transformer is 10 AWG. 4H & 31.25 Ohms on L3 & L4 are using ~34 AWG, each.
~52MegaW in 2½ minutes on L3 or L4.
INCREASE THESE 2 CAPACITORS FOR MORE POWER
L3 and L4 are separate motors. They cannot be on the same motor, for they would cancel each other since they are 180° out of phase with each other.
gear approx. and 1 = reltol


nodiodes2d2_ON.CIR
125.00
100.00
75.00
50.00
25.00
0.00
0.00
29.40
58.80
88.20
117.60
147.00
V(L3)*I(L3)
V(L4)*I(L4)
150.00
120.00
90.00
60.00
30.00
V(L3)/I(L3)
90.00
45.00
15.00
V(L4)/I(L4)
T (Secs)

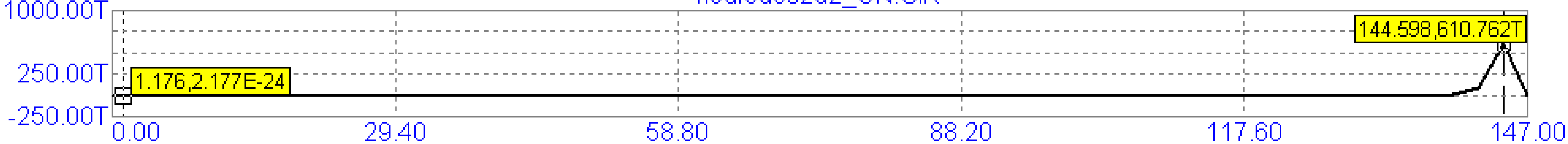

nodiodes2d2_ON.CIR
125.00
50.00
0.00
144.598,80.811
588.000m,3.226E-38
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
V(L3)*I(L3)
3.226E-38
80.811
80.811
561.145m
T (Secs)
588.000m
144.598
144.010
1.000
125.00
50.00
0.00
V(L4)*I(L4)
3.514E-38
99.039
99.039
687.723m
T (Secs)
588.000m
144.598
144.010
1.000
150.00
60.00
0.00
V(L3)/I(L3)
57.357
33.100
-24.257
-168.441m
T (Secs)
588.000m
144.598
144.010
1.000
90.00
45.00
15.00
V(L4)/I(L4)
56.288
32.339
-23.949
-166.300m
T (Secs)
588.000m
144.598
144.010
1.000


nodiodes2d2_ON.CIR
480.00m
360.00m
240.00m
120.00m
0.00m
-120.00m
0.00
29.40
58.80
88.20
117.60
147.00
V(L1)*I(L1)
300.00m
225.00m
150.00m
75.00m
0.00m
-75.00m
V(L2)*I(L2)
150.00
75.00
0.00
-75.00
-150.00
-225.00
V(C1)*I(C1)
1.00m
0.75m
0.50m
0.25m
0.00m
-0.25m
V(C6)*I(C6)
T (Secs)

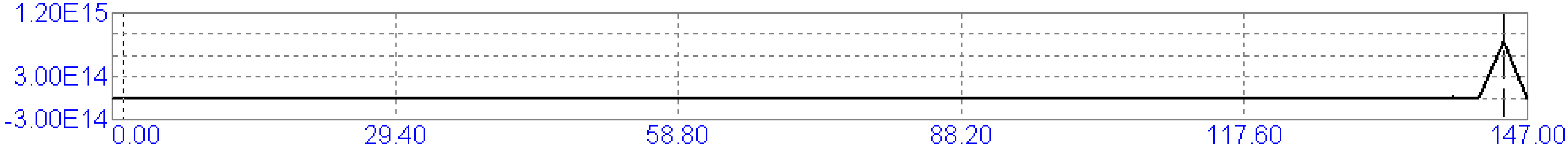

nodiodes2d2_ON.CIR
480.00m
120.00m
-120.00m
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
V(L1)*I(L1)
1.361E-41
339.844m
339.844m
2.353m
T (Secs)
164.614m
144.598
144.433
1.000
300.00m
75.00m
-75.00m
V(L2)*I(L2)
5.021E-43
188.477m
188.477m
1.305m
150.00
-75.00
-225.00
164.614m,1.319E-38
144.598,-202.051
V(C1)*I(C1)
1.319E-38
-202.051
-202.051
-1.399
1.00m
0.25m
-0.25m
V(C6)*I(C6)
-1.387E-38
0.000
1.387E-38
9.601E-41


nodiodes2d2_ON.CIR
1000.00T
750.00T
500.00T
250.00T
0.00T
-250.00T
0.00
29.40
58.80
88.20
117.60
147.00
V(C3)*I(C3)
1.20E15
9.00E14
6.00E14
3.00E14
0.00E00
-3.00E14
0.00
29.40
58.80
88.20
117.60
147.00
V(C2)*I(C2)
600.00T
450.00T
300.00T
150.00T
0.00T
-150.00T
0.00
29.40
58.80
88.20
117.60
147.00
V(C4)*I(C4)
800.00T
200.00T
-200.00T
0.00
29.40
58.80
88.20
117.60
147.00
V(C5)*I(C5)
T (Secs)

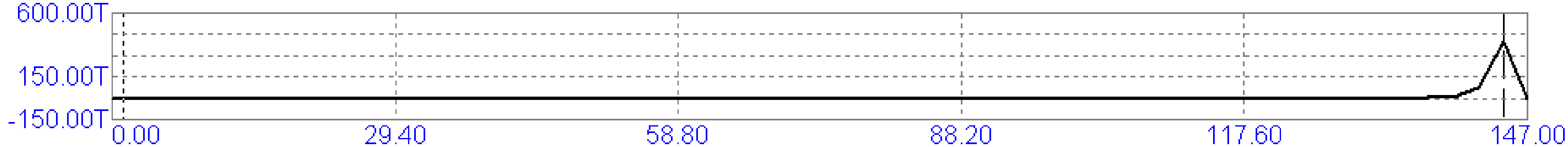
nodiodes2d2_ON.CIR



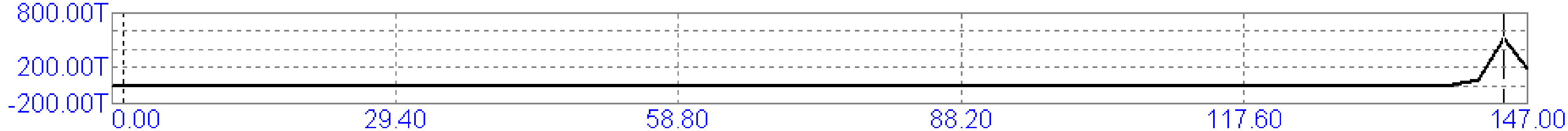
	Left	Right	Delta	Slope
V(C3)*I(C3)	2.177E-24	610.762T	610.762T	4.258T
T (Secs)	1.176	144.598	143.422	1.000



	Left	Right	Delta	Slope
V(C2)*I(C2)	1.466E-25	7.936E14	7.936E14	5.533E12
T (Secs)	1.176	144.598	143.422	1.000

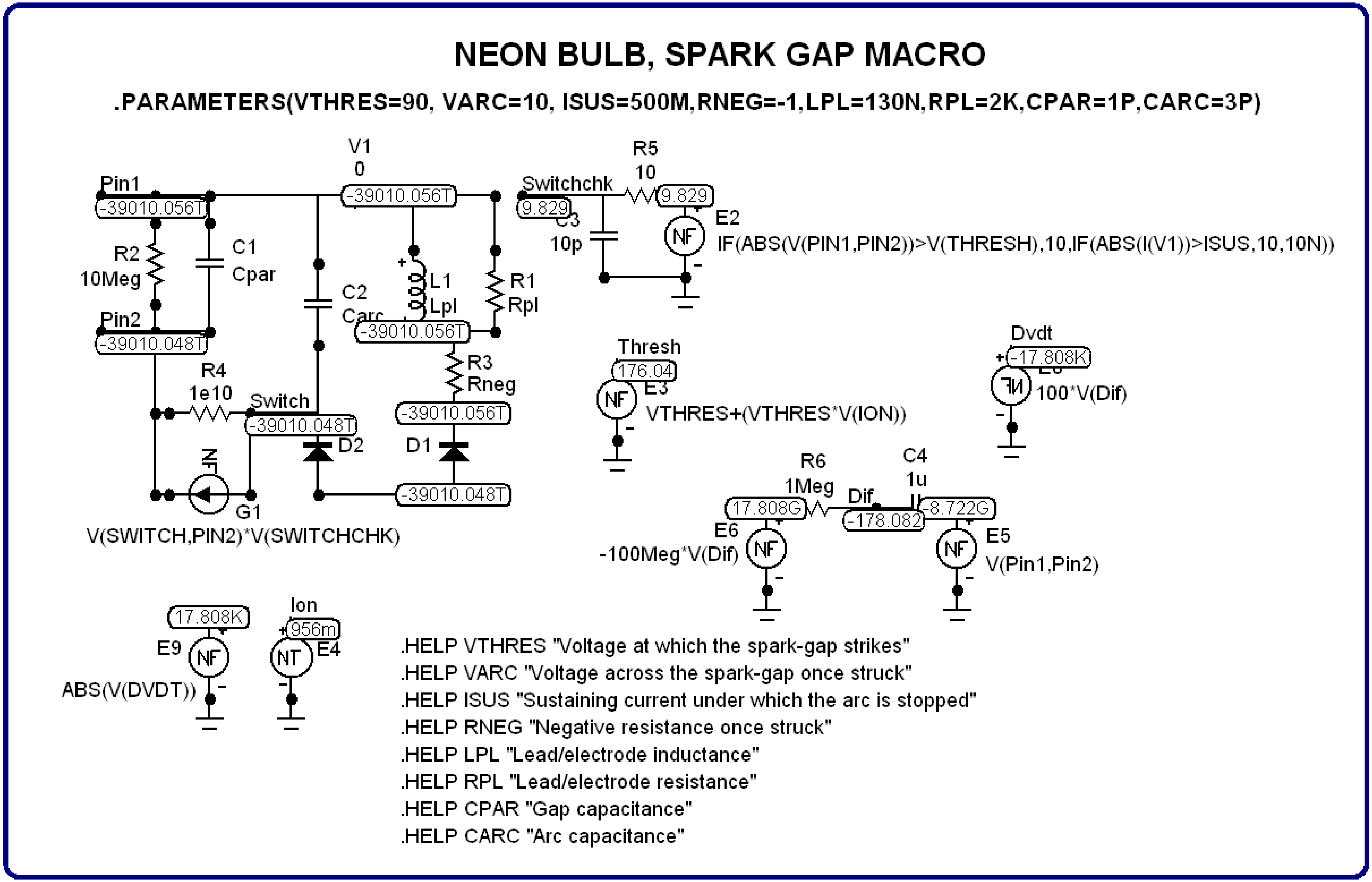


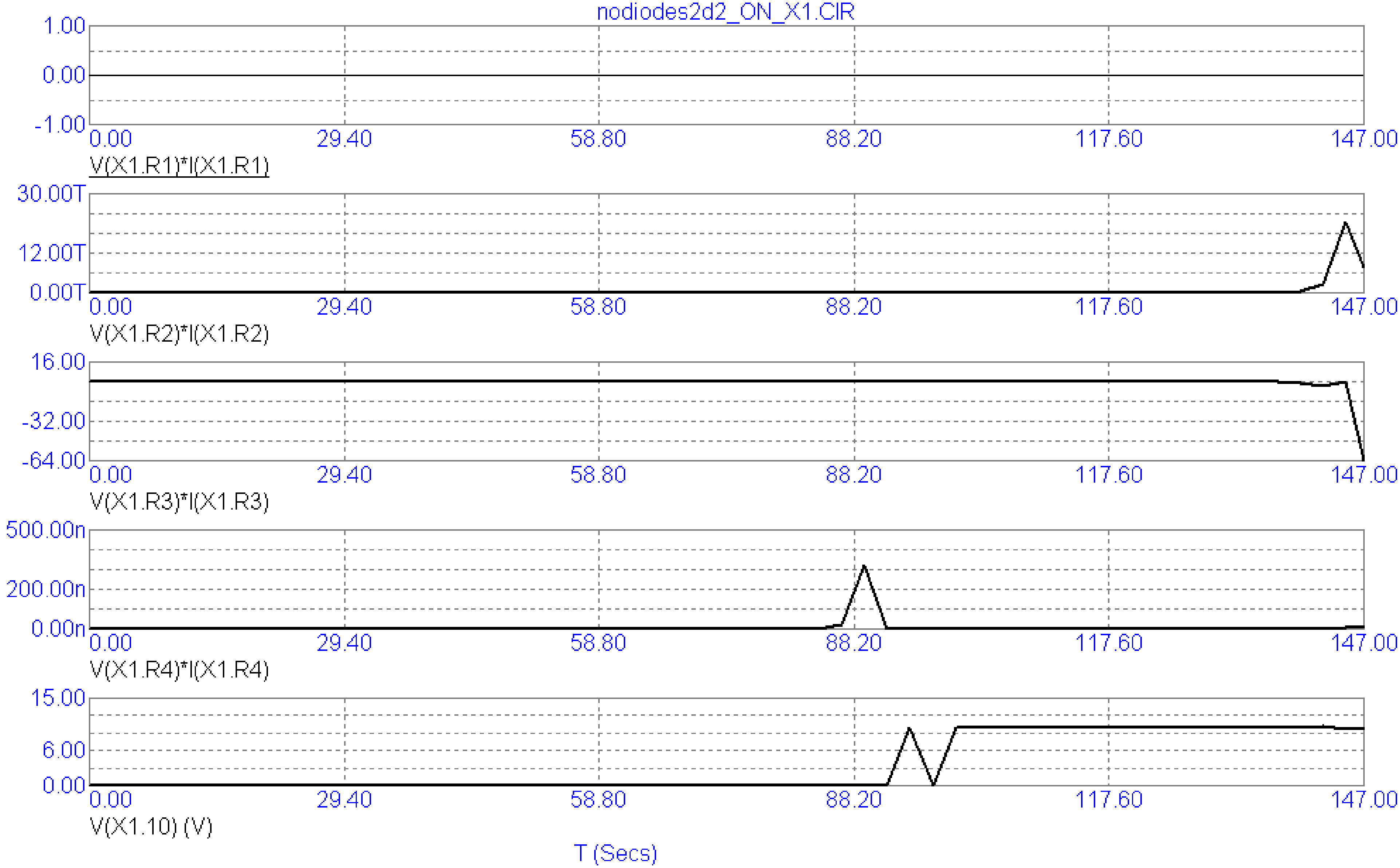
	Left	Right	Delta	Slope
V(C4)*I(C4)	0.000	401.582T	401.582T	2.800T
T (Secs)	1.176	144.598	143.422	1.000



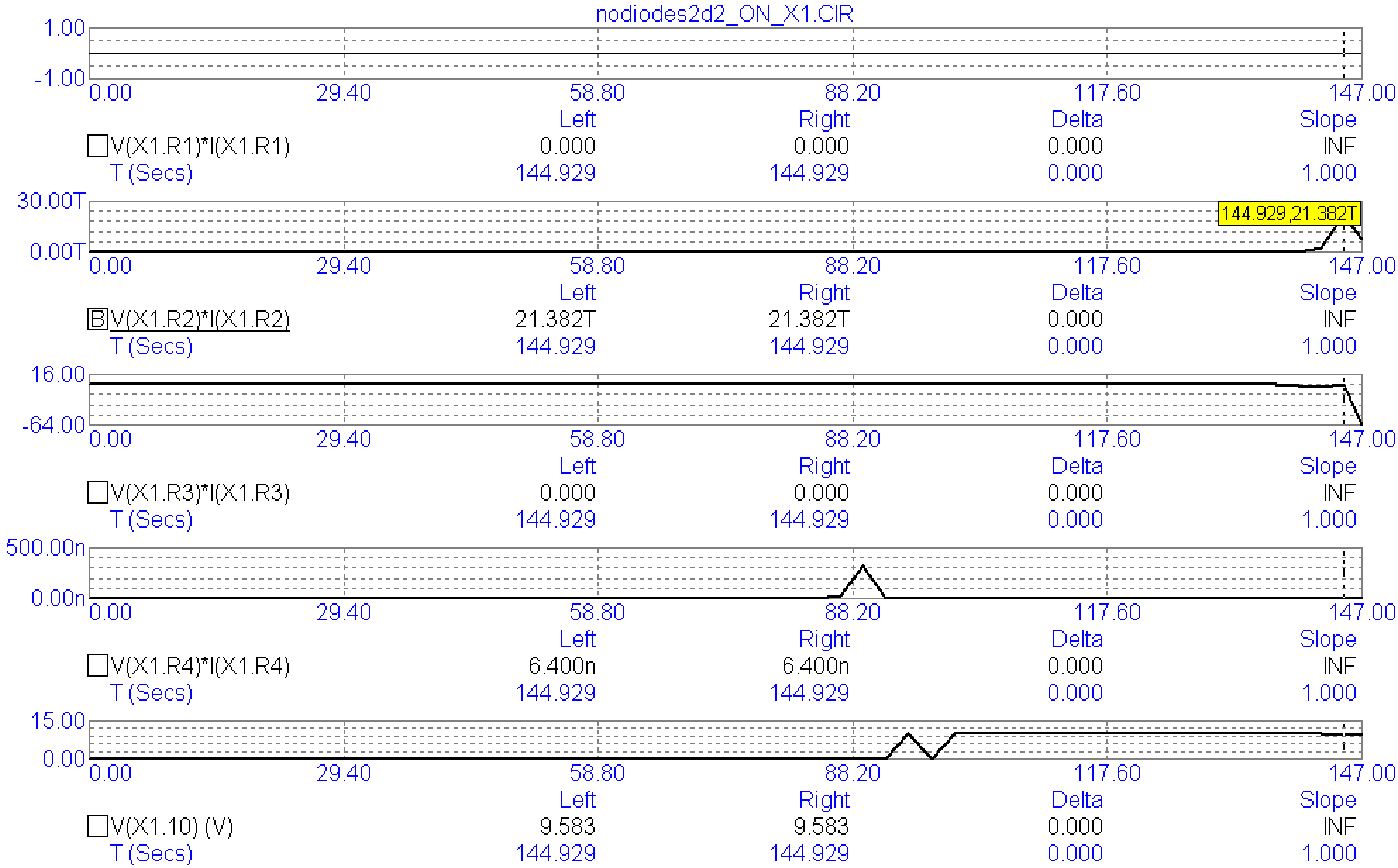
	Left	Right	Delta	Slope
V(C5)*I(C5)	3.869E-24	518.805T	518.805T	3.617T
T (Secs)	1.176	144.598	143.422	1.000

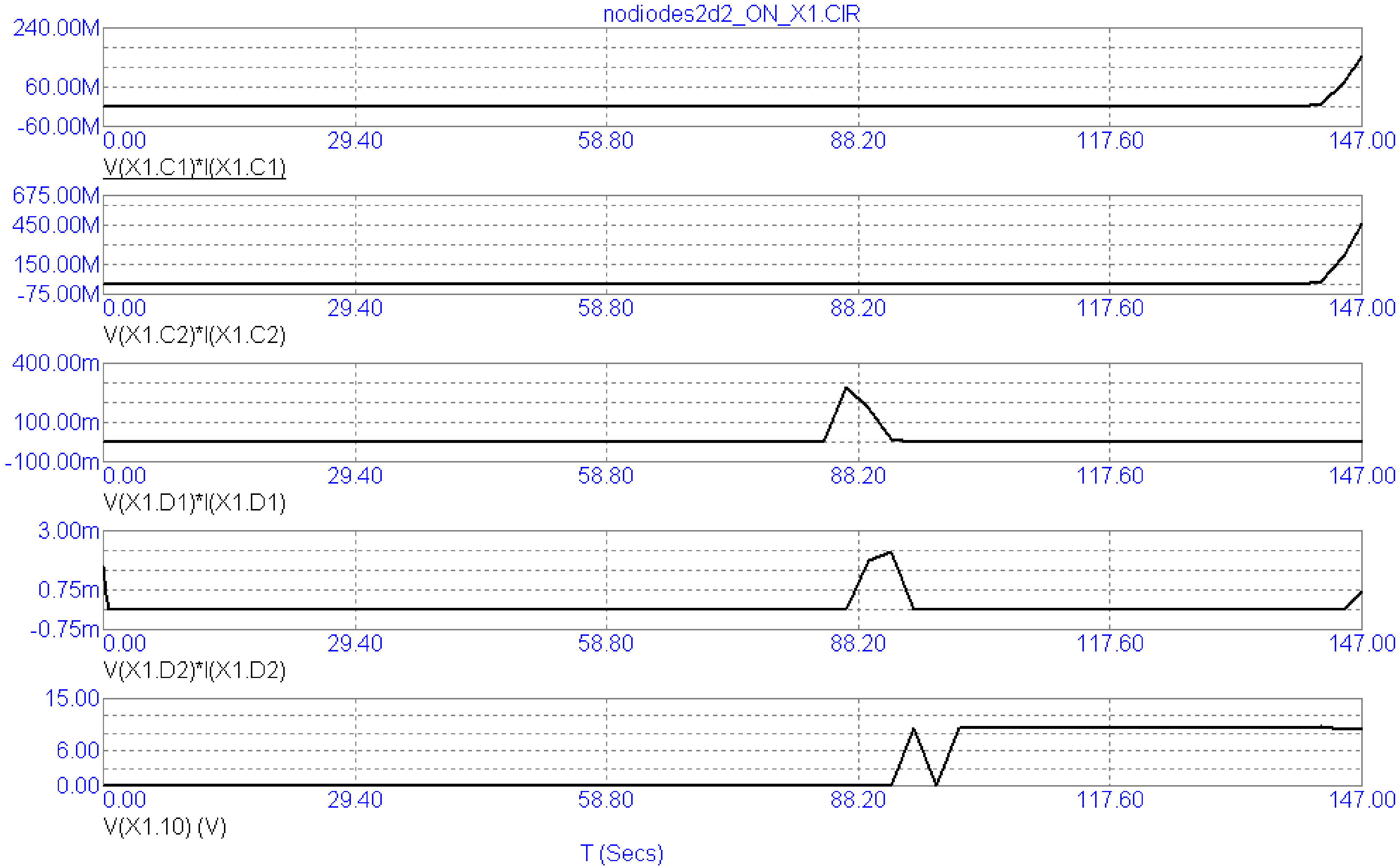
Nodal Voltages for X1 subcircuit, macro (Micro-Cap).

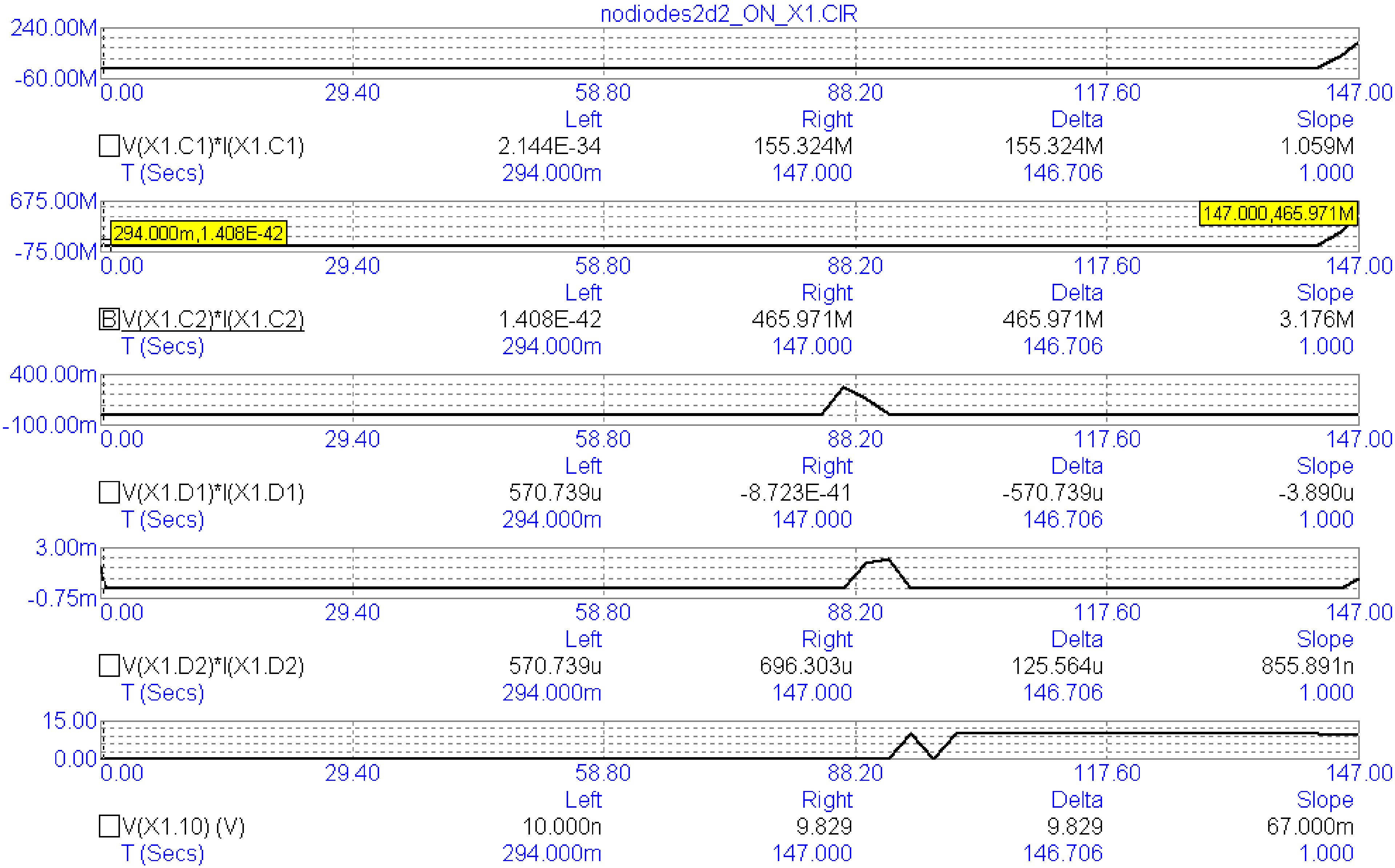


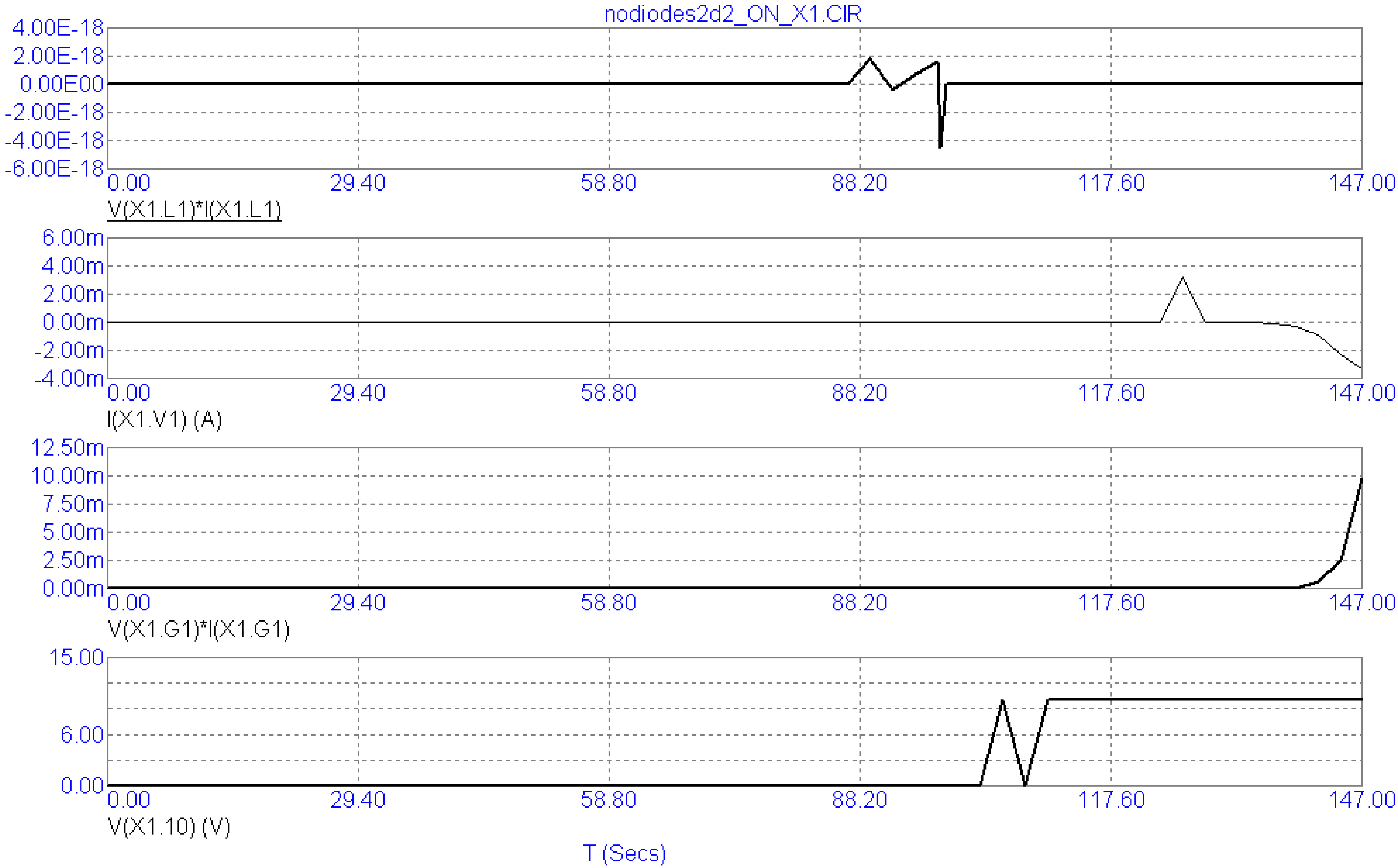


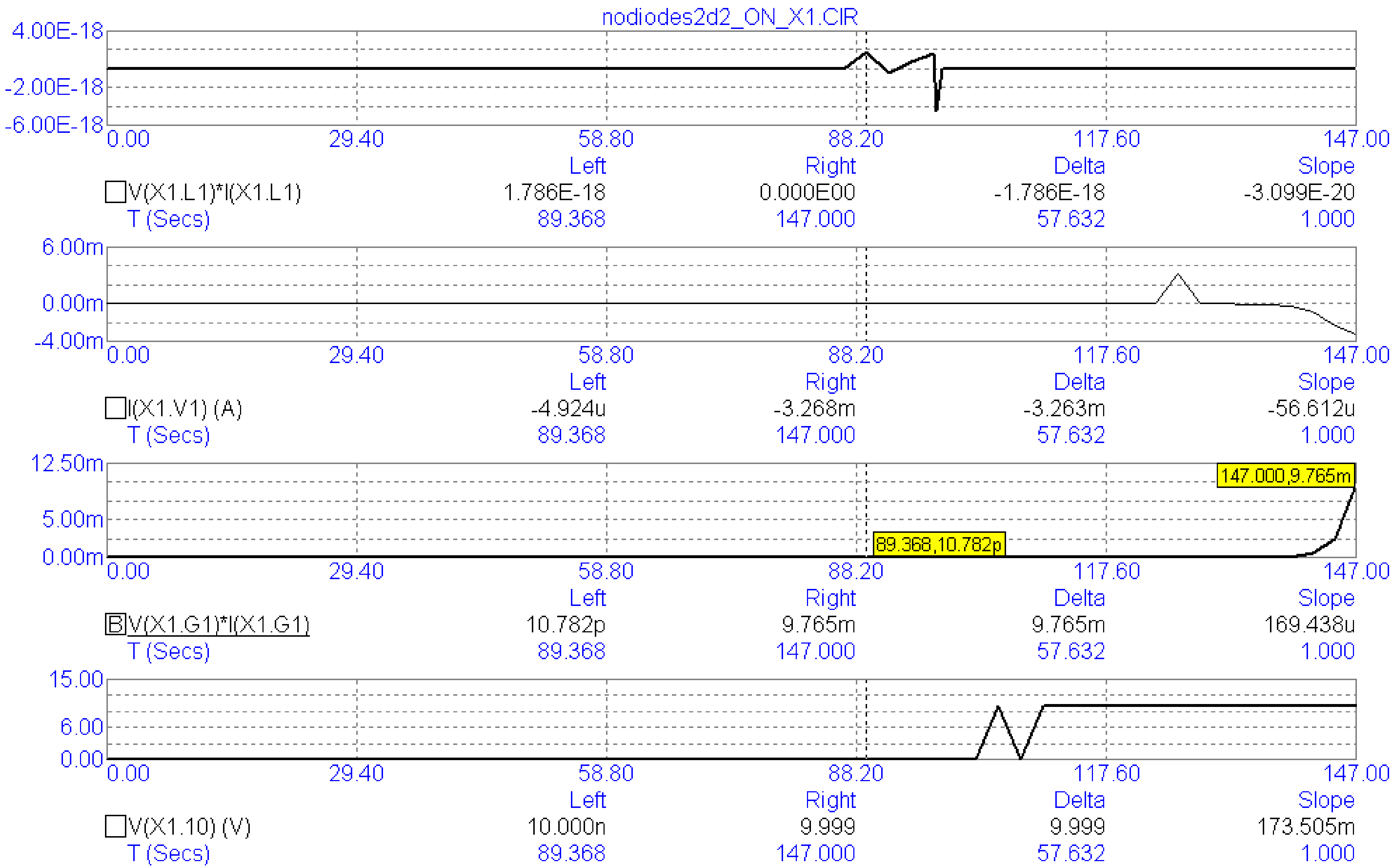
Node X1.10 tells us if this spark gap is ON if it equals ~10V. If ~10nV, then OFF.


nodiodes2d2_ON_X1.CIR
1.00
-1.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.R1)*I(X1.R1) 0.000 0.000 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000
30.00T
0.00T
144.929,21.382T
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
B V(X1.R2)*I(X1.R2) 21.382T 21.382T 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000
16.00
-64.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.R3)*I(X1.R3) 0.000 0.000 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000
500.00n
0.00n
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.R4)*I(X1.R4) 6.400n 6.400n 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000
15.00
0.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.10) (V) 9.583 9.583 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000

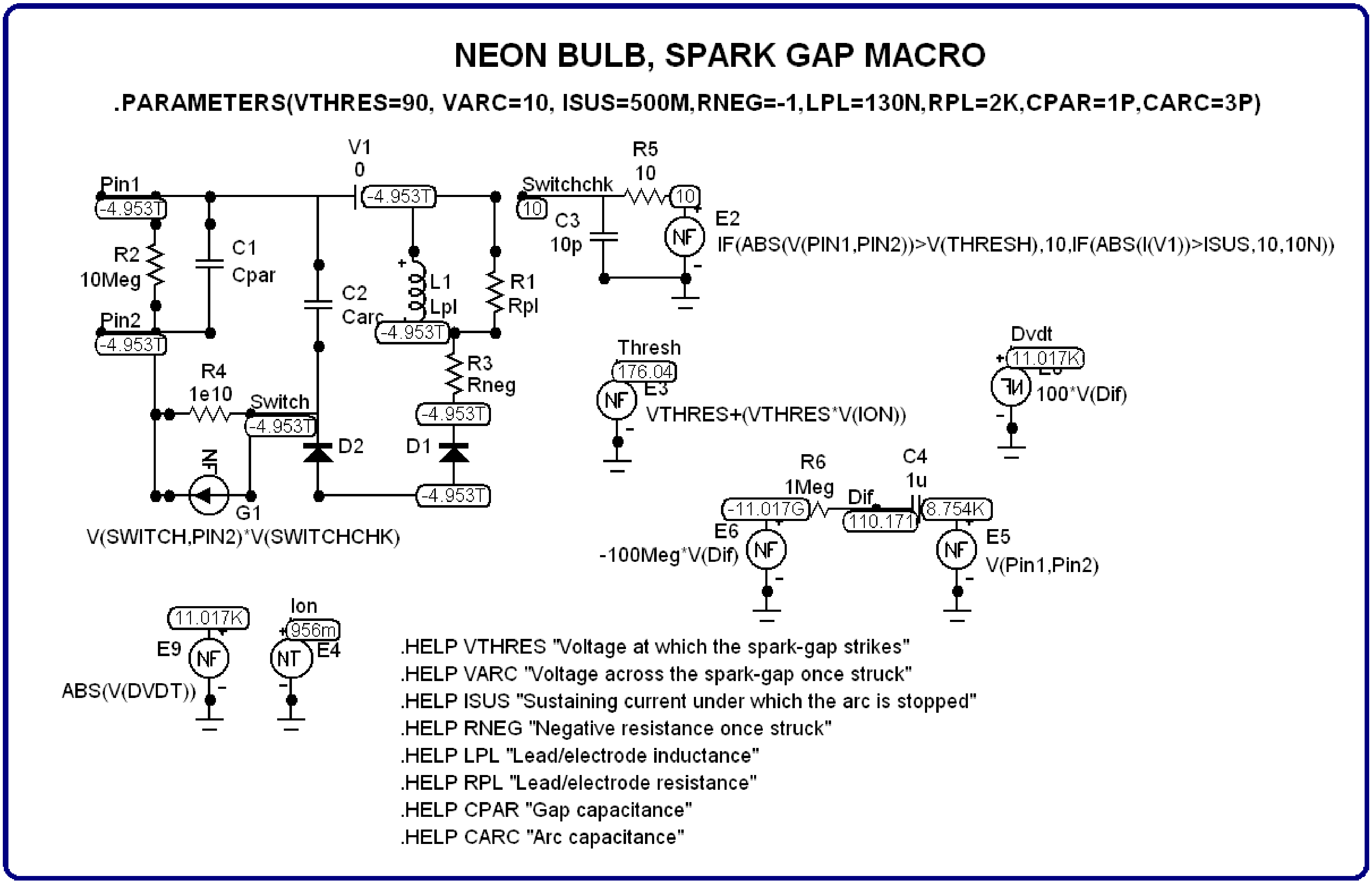

nodiodes2d2_ON_X1.CIR
240.00M
60.00M
-60.00M
0.00
29.40
58.80
88.20
117.60
147.00
V(X1.C1)*I(X1.C1)
675.00M
450.00M
150.00M
-75.00M
V(X1.C2)*I(X1.C2)
400.00m
100.00m
-100.00m
V(X1.D1)*I(X1.D1)
3.00m
0.75m
-0.75m
V(X1.D2)*I(X1.D2)
15.00
6.00
0.00
V(X1.10) (V)
T (Secs)

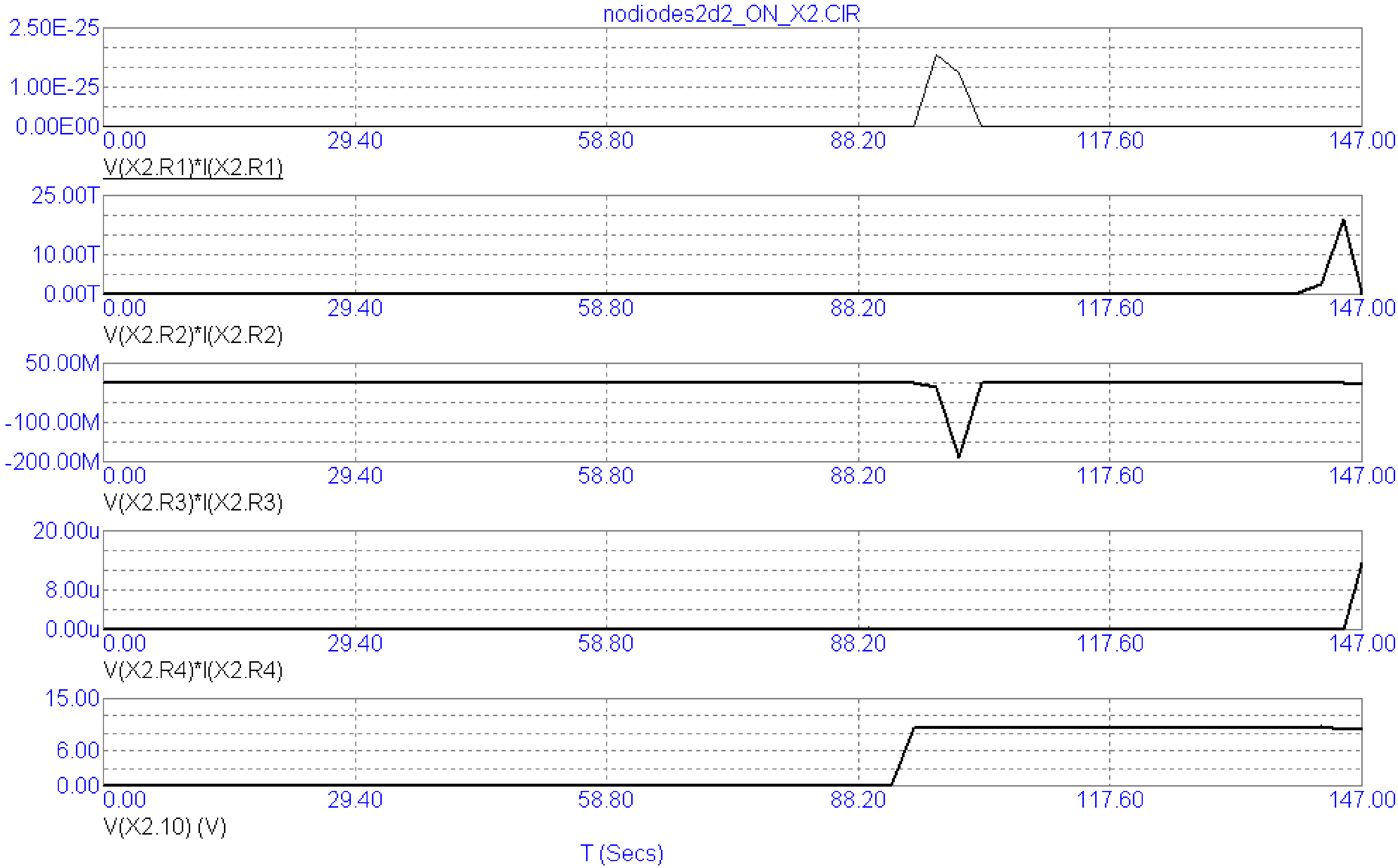

nodiodes2d2_ON_X1.CIR
240.00M
-60.00M
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.C1)*I(X1.C1) 2.144E-34 155.324M 155.324M 1.059M
T (Secs) 294.000m 147.000 146.706 1.000
675.00M
-75.00M
294.000m,1.408E-42
147.000,465.971M
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
B V(X1.C2)*I(X1.C2) 1.408E-42 465.971M 465.971M 3.176M
T (Secs) 294.000m 147.000 146.706 1.000
400.00m
-100.00m
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.D1)*I(X1.D1) 570.739u -8.723E-41 -570.739u -3.890u
T (Secs) 294.000m 147.000 146.706 1.000
3.00m
-0.75m
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.D2)*I(X1.D2) 570.739u 696.303u 125.564u 855.891n
T (Secs) 294.000m 147.000 146.706 1.000
15.00
0.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X1.10) (V) 10.000n 9.829 9.829 67.000m
T (Secs) 294.000m 147.000 146.706 1.000

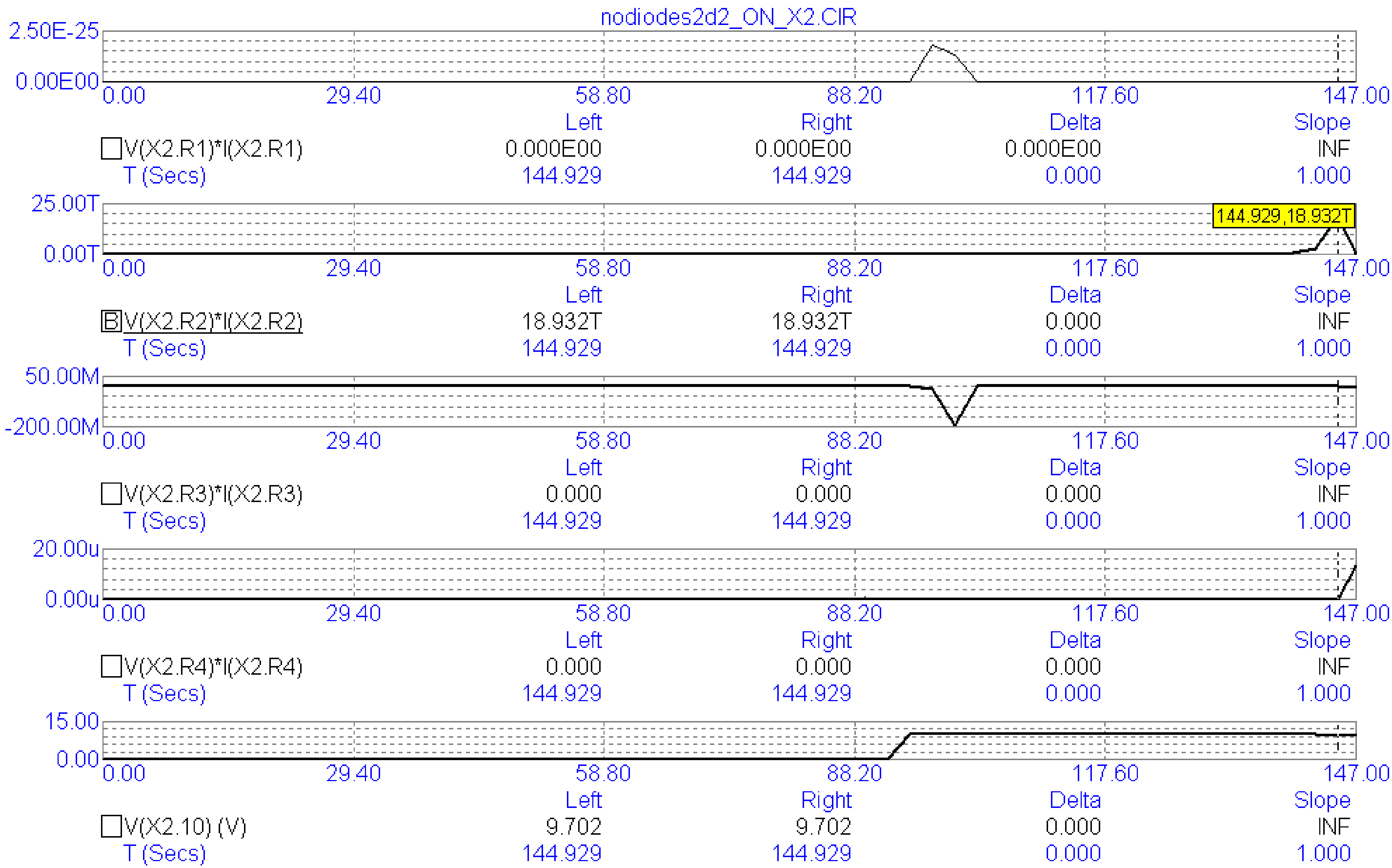

nodiodes2d2_ON_X1.CIR
4.00E-18
2.00E-18
0.00E00
-2.00E-18
-4.00E-18
-6.00E-18
0.00
29.40
58.80
88.20
117.60
147.00
V(X1.L1)*I(X1.L1)
6.00m
4.00m
2.00m
0.00m
-2.00m
-4.00m
I(X1.V1) (A)
12.50m
10.00m
7.50m
5.00m
2.50m
0.00m
V(X1.G1)*I(X1.G1)
15.00
6.00
0.00
V(X1.10) (V)
T (Secs)

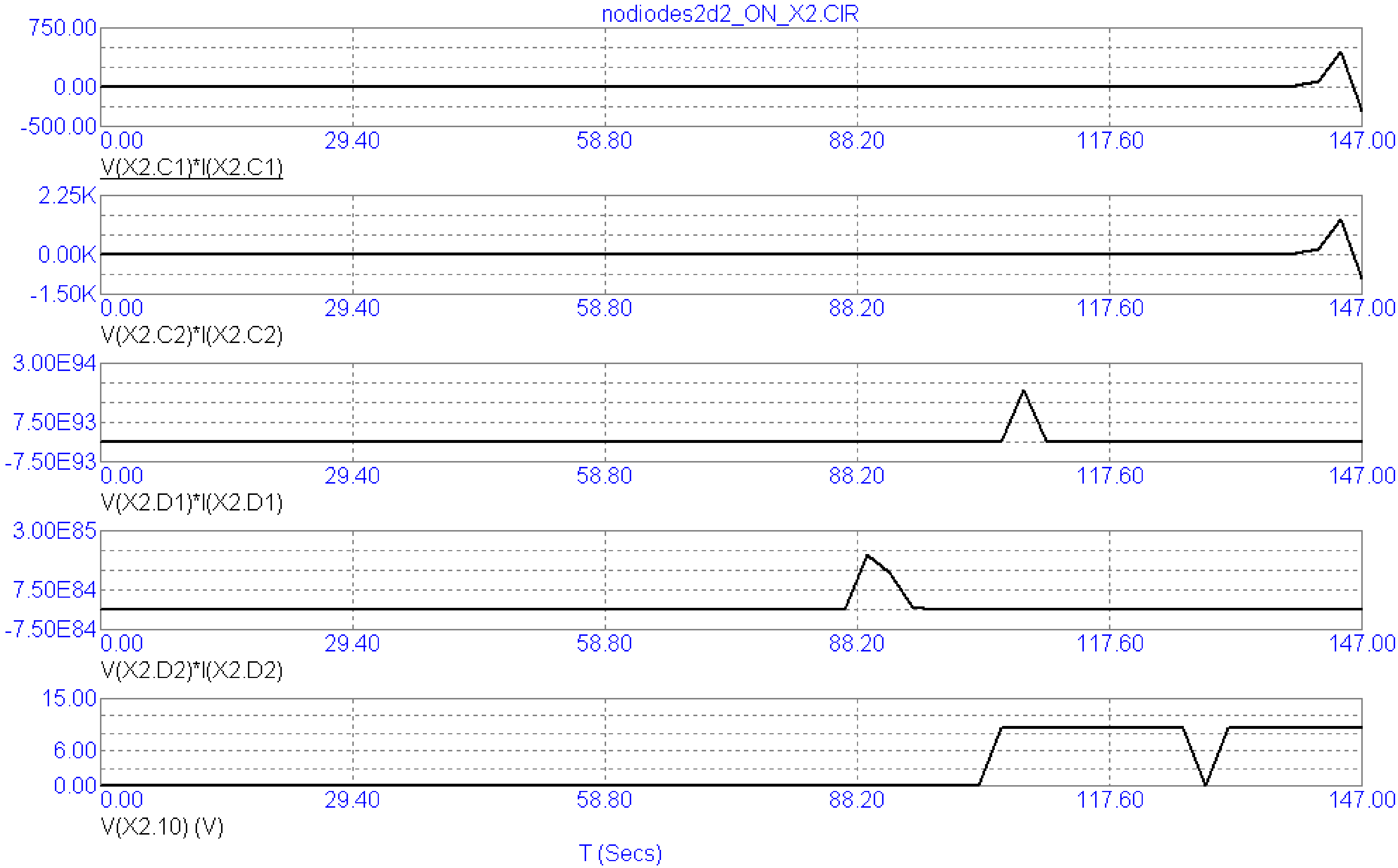

nodiodes2d2_ON_X1.CIR
4.00E-18
-2.00E-18
-6.00E-18
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
V(X1.L1)*I(X1.L1)
1.786E-18
0.000E00
-1.786E-18
-3.099E-20
T (Secs)
89.368
147.000
57.632
1.000
6.00m
0.00m
-4.00m
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
I(X1.V1) (A)
-4.924u
-3.268m
-3.263m
-56.612u
T (Secs)
89.368
147.000
57.632
1.000
12.50m
5.00m
0.00m
147.000,9.765m
89.368,10.782p
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
B V(X1.G1)*I(X1.G1)
10.782p
9.765m
9.765m
169.438u
T (Secs)
89.368
147.000
57.632
1.000
15.00
6.00
0.00
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
V(X1.10) (V)
10.000n
9.999
9.999
173.505m
T (Secs)
89.368
147.000
57.632
1.000

Nodal Voltages for X2 subcircuit, macro (Micro-Cap).




nodiodes2d2_ON_X2.CIR
2.50E-25
1.00E-25
0.00E00
0.00
29.40
58.80
88.20
117.60
147.00
V(X2.R1)*I(X2.R1)
25.00T
10.00T
0.00T
V(X2.R2)*I(X2.R2)
50.00M
-100.00M
-200.00M
V(X2.R3)*I(X2.R3)
20.00u
8.00u
0.00u
V(X2.R4)*I(X2.R4)
15.00
6.00
0.00
V(X2.10) (V)
T (Secs)

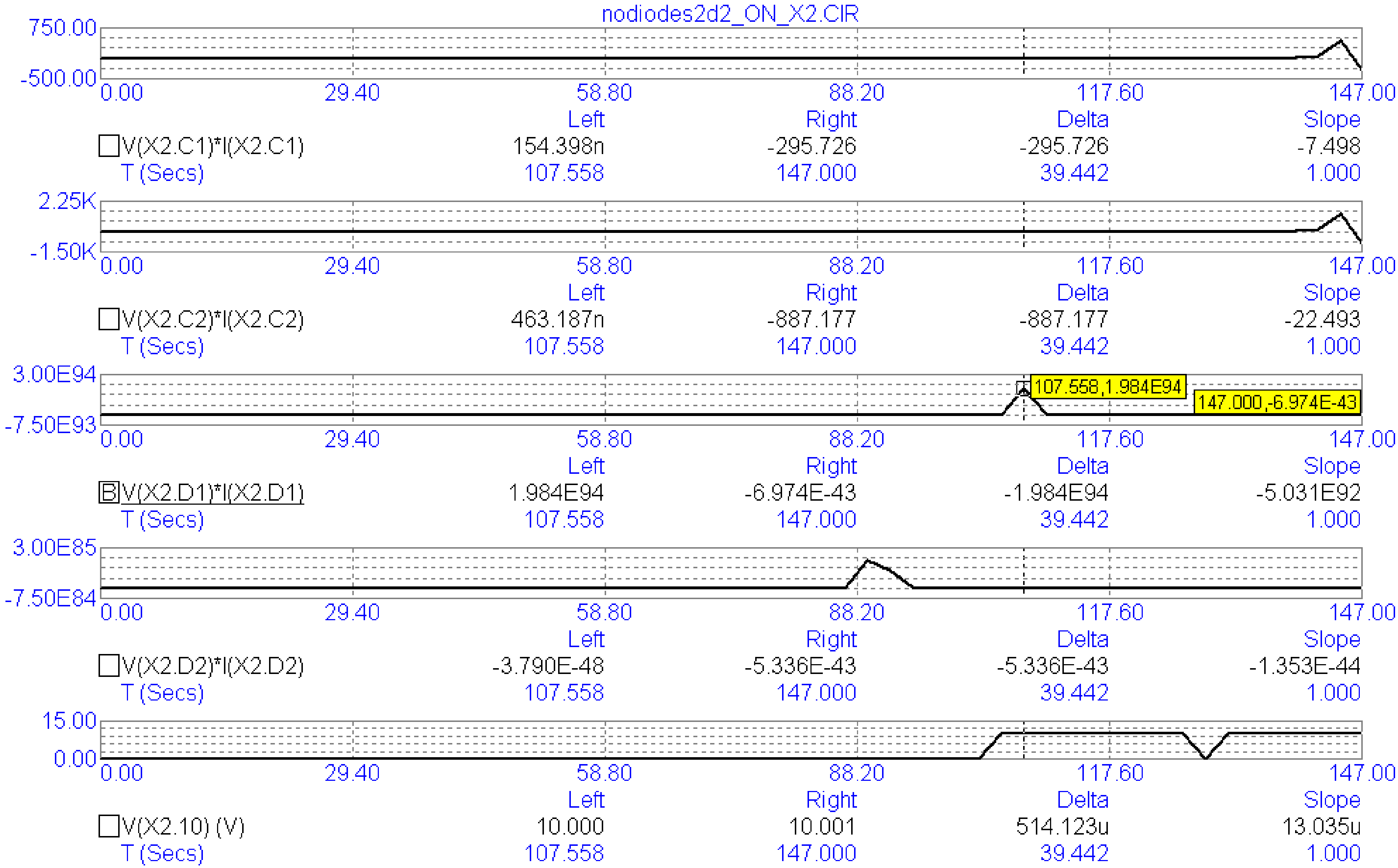

nodiodes2d2_ON_X2.CIR
2.50E-25
0.00E00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.R1)*I(X2.R1) 0.000E00 0.000E00 0.000E00 INF
T (Secs) 144.929 144.929 0.000 1.000
25.00T
0.00T
144.929,18.932T
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
B V(X2.R2)*I(X2.R2) 18.932T 18.932T 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000
50.00M
-200.00M
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.R3)*I(X2.R3) 0.000 0.000 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000
20.00u
0.00u
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.R4)*I(X2.R4) 0.000 0.000 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000
15.00
0.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.10) (V) 9.702 9.702 0.000 INF
T (Secs) 144.929 144.929 0.000 1.000

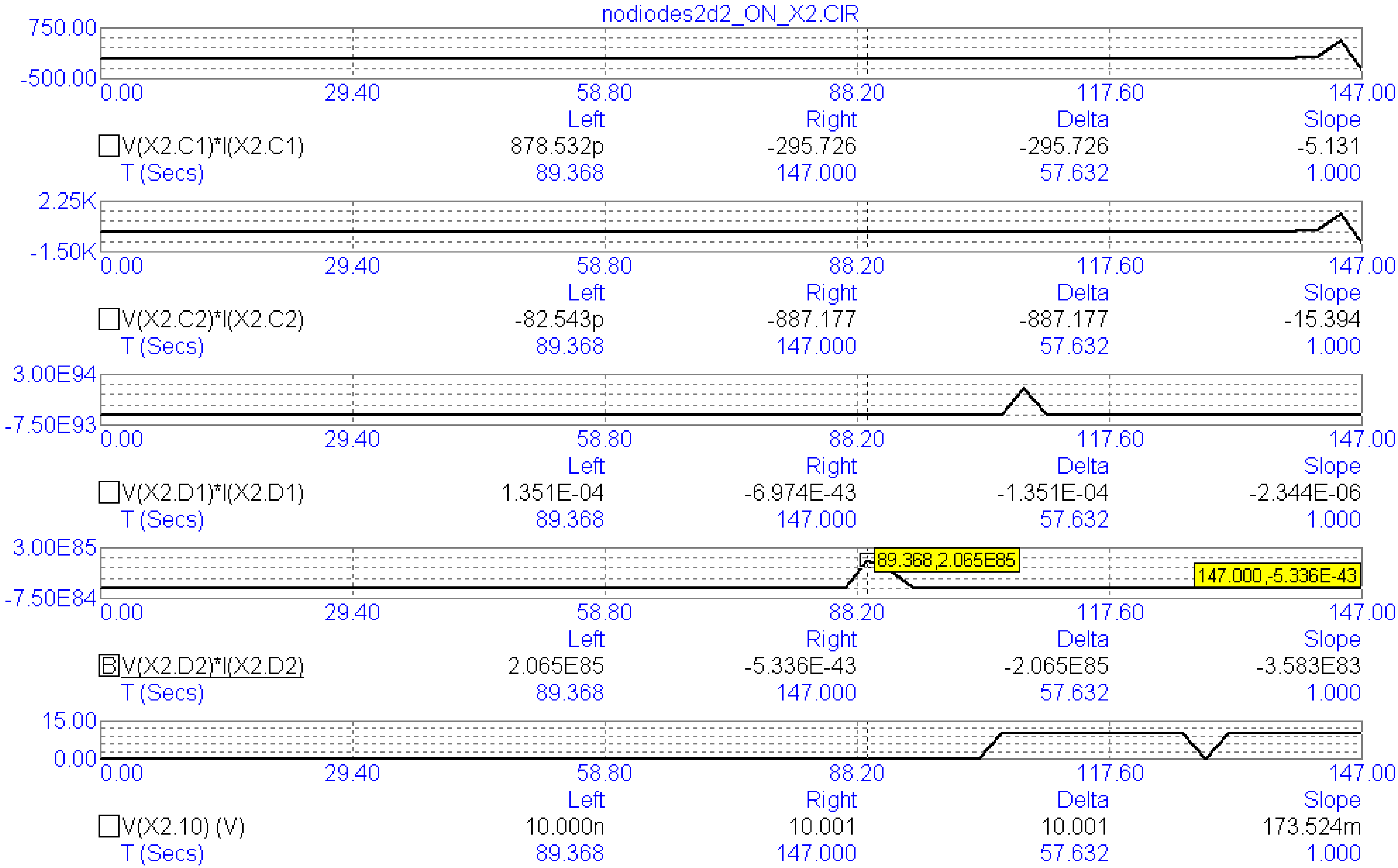


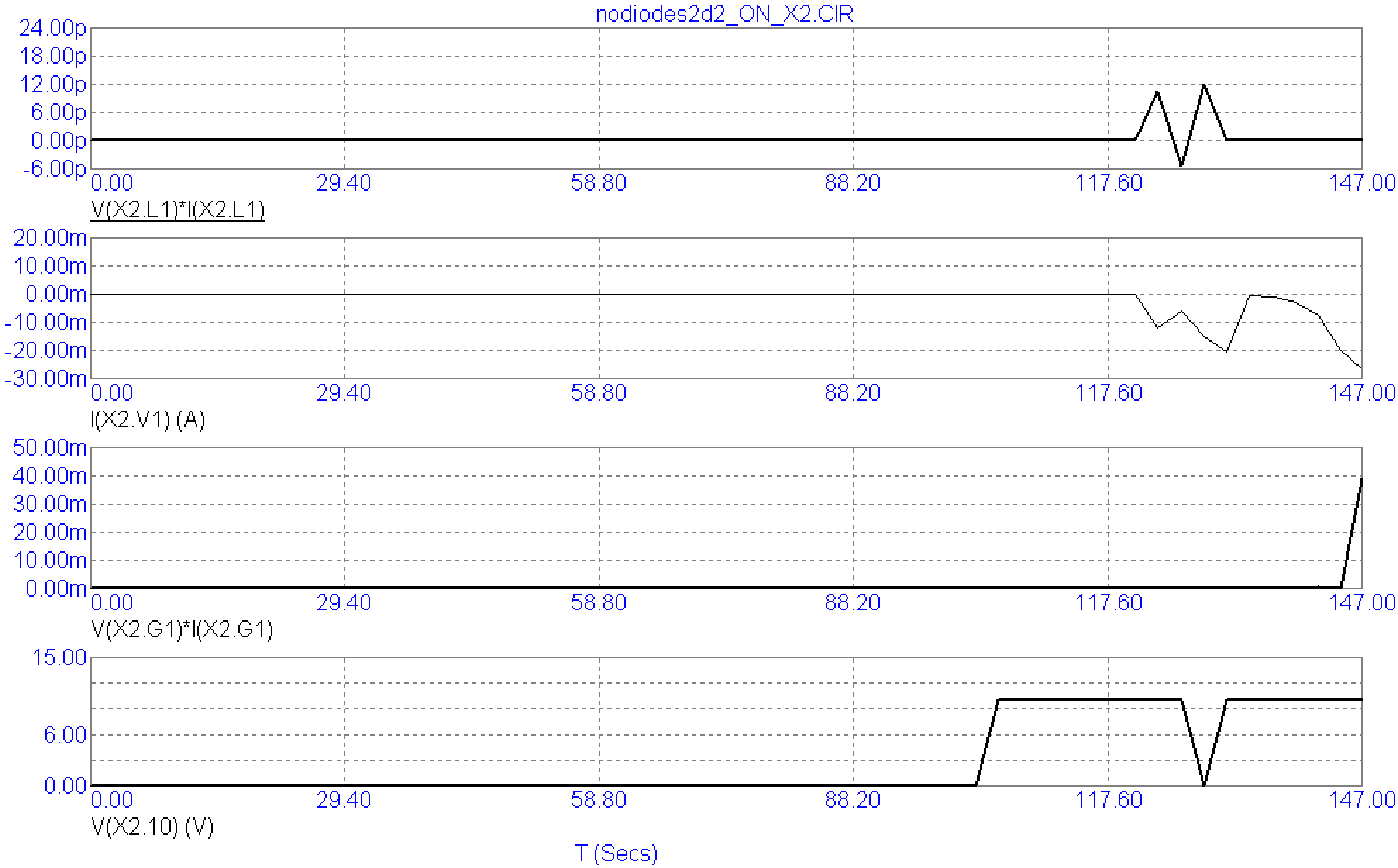
nodiodes2d2_ON_X2.CIR
750.00
0.00
-500.00
0.00
29.40
58.80
88.20
117.60
147.00
V(X2.C1)*I(X2.C1)
2.25K
0.00K
-1.50K
V(X2.C2)*I(X2.C2)
3.00E94
7.50E93
-7.50E93
V(X2.D1)*I(X2.D1)
3.00E85
7.50E84
-7.50E84
V(X2.D2)*I(X2.D2)
15.00
6.00
0.00
V(X2.10) (V)
T (Secs)

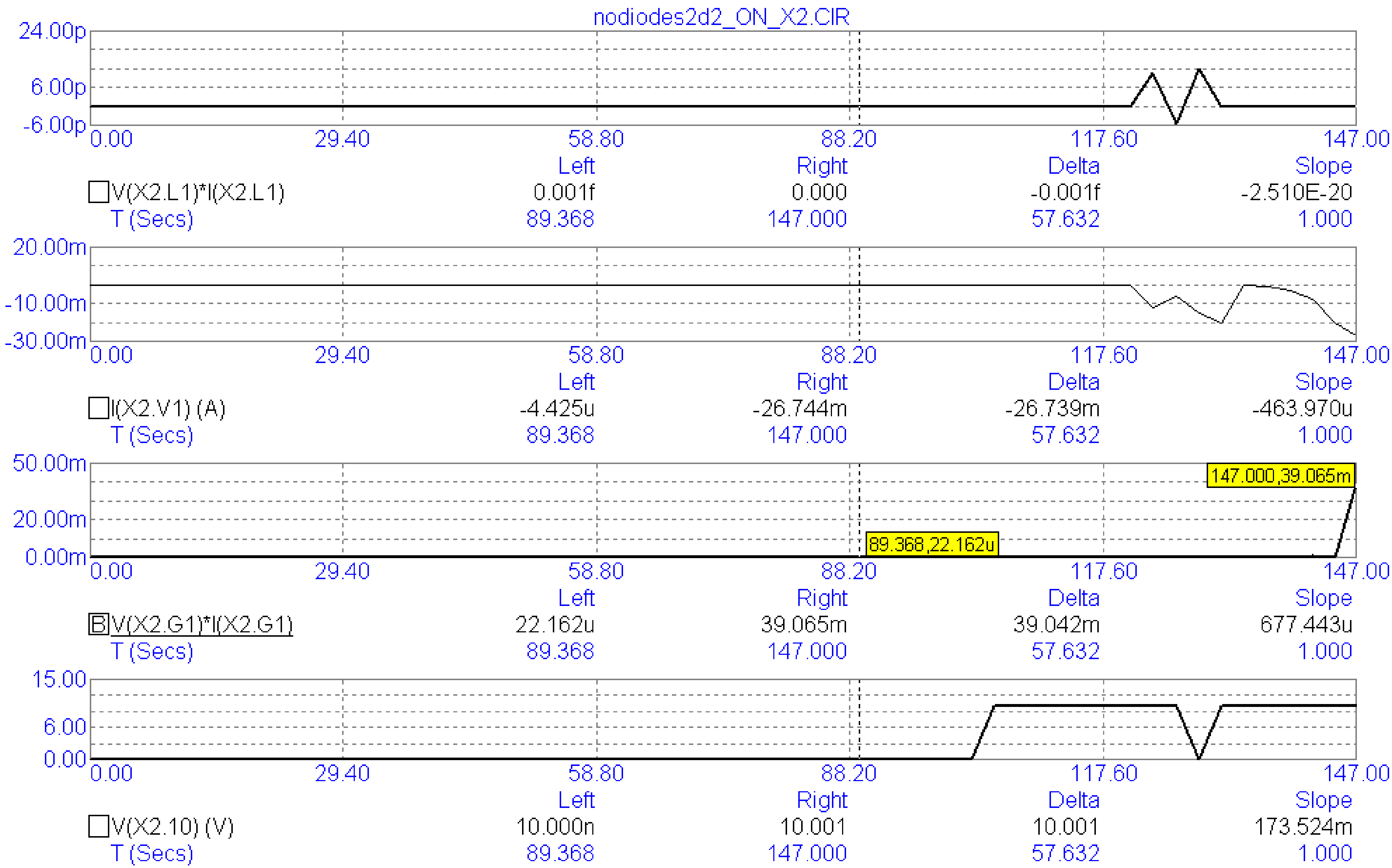
The following figures, FIG. 25 and FIG. 26, demonstrates how power is generated most of the time. Only occasionally does it react in the opposite (positive) direction to absorb, convert, and get rid of, this excess energy by spiking in the positive polarity once in a while.

So, causality has not been broken if we examine all of the components of a circuit over the entire duration of its run-time!


nodiodes2d2_ON_X2.CIR
750.00
-500.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.C1)*I(X2.C1) 154.398n -295.726 -295.726 -7.498
T (Secs) 107.558 147.000 39.442 1.000
2.25K
-1.50K
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.C2)*I(X2.C2) 463.187n -887.177 -887.177 -22.493
T (Secs) 107.558 147.000 39.442 1.000
3.00E94
-7.50E93
107.558,1.984E94
147.000,-6.974E-43
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
B V(X2.D1)*I(X2.D1) 1.984E94 -6.974E-43 -1.984E94 -5.031E92
T (Secs) 107.558 147.000 39.442 1.000
3.00E85
-7.50E84
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.D2)*I(X2.D2) -3.790E-48 -5.336E-43 -5.336E-43 -1.353E-44
T (Secs) 107.558 147.000 39.442 1.000
15.00
0.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.10) (V) 10.000 10.001 514.123u 13.035u
T (Secs) 107.558 147.000 39.442 1.000


nodiodes2d2_ON_X2.CIR
750.00
-500.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.C1)*I(X2.C1) 878.532p -295.726 -295.726 -5.131
T (Secs) 89.368 147.000 57.632 1.000
2.25K
-1.50K
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.C2)*I(X2.C2) -82.543p -887.177 -887.177 -15.394
T (Secs) 89.368 147.000 57.632 1.000
3.00E94
-7.50E93
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.D1)*I(X2.D1) 1.351E-04 -6.974E-43 -1.351E-04 -2.344E-06
T (Secs) 89.368 147.000 57.632 1.000
3.00E85
-7.50E84
89.368,2.065E85
147.000,-5.336E-43
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
B V(X2.D2)*I(X2.D2) 2.065E85 -5.336E-43 -2.065E85 -3.583E83
T (Secs) 89.368 147.000 57.632 1.000
15.00
0.00
0.00 29.40 58.80 88.20 117.60 147.00
Left Right Delta Slope
V(X2.10) (V) 10.000n 10.001 10.001 173.524m
T (Secs) 89.368 147.000 57.632 1.000


nodiodes2d2_ON_X2.CIR
24.00p
18.00p
12.00p
6.00p
0.00p
-6.00p
0.00
29.40
58.80
88.20
117.60
147.00
V(X2.L1)*I(X2.L1)
20.00m
10.00m
0.00m
-10.00m
-20.00m
-30.00m
I(X2.V1) (A)
50.00m
40.00m
30.00m
20.00m
10.00m
0.00m
V(X2.G1)*I(X2.G1)
15.00
6.00
0.00
V(X2.10) (V)
T (Secs)


nodiodes2d2_ON_X2.CIR
24.00p
6.00p
-6.00p
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
V(X2.L1)*I(X2.L1)
0.001f
0.000
-0.001f
-2.510E-20
T (Secs)
89.368
147.000
57.632
1.000
20.00m
-10.00m
-30.00m
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
I(X2.V1) (A)
-4.425u
-26.744m
-26.739m
-463.970u
T (Secs)
89.368
147.000
57.632
1.000
50.00m
20.00m
0.00m
147.000,39.065m
89.368,22.162u
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
B V(X2.G1)*I(X2.G1)
22.162u
39.065m
39.042m
677.443u
T (Secs)
89.368
147.000
57.632
1.000
15.00
6.00
0.00
0.00
29.40
58.80
88.20
117.60
147.00
Left
Right
Delta
Slope
V(X2.10) (V)
10.000n
10.001
10.001
173.524m
T (Secs)
89.368
147.000
57.632
1.000