

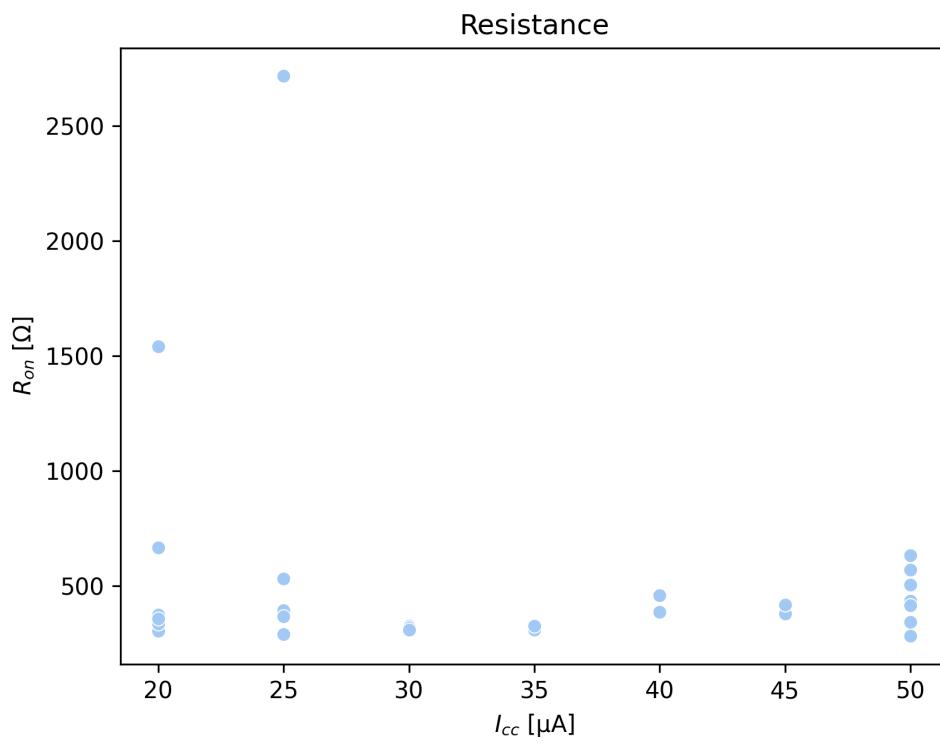
(wafer2,0,7,-1,-1,1,1) Characteristics

- **Cell Size:** 10um
- **Times Accessed:** 56
- **Last Measurement:** 2022/March/28 at 05:01:39PM

Summary

Cycle #	Set Icc (µA)	Set Voltage (V)	R_on (Ω)	R2
1	20.0	4.30	325.41	1.000
2	20.0	4.40	303.39	1.000
3	20.0	4.40	378.32	1.000
4	20.0	4.40	363.96	1.000
5	20.0	4.40	1541.39	1.000
6	20.0	4.15	667.53	1.000
7	20.0	3.75	374.79	1.000
8	20.0	3.75	305.19	1.000
9	20.0	2.80	335.08	1.000
10	20.0	2.80	356.71	1.000
11	25.0	3.20	392.65	1.000
12	25.0	2.25	364347298.21	0.380
13	25.0	4.65	2717.35	1.000
14	25.0	4.65	532.46	1.000
15	25.0	4.65	290.51	1.000
16	25.0	2.65	367.04	1.000
17	30.0	3.40	326.92	1.000
18	30.0	3.85	317.91	1.000
19	30.0	3.85	309.11	1.000
20	35.0	3.95	309.70	1.000
21	35.0	3.60	327.05	1.000
22	40.0	2.00	458.09	1.000
23	40.0	3.20	387.28	1.000
24	45.0	3.35	378.51	1.000
25	45.0	2.90	418.02	1.000
26	50.0	2.65	632.76	1.000
27	50.0	2.50	505.26	1.000

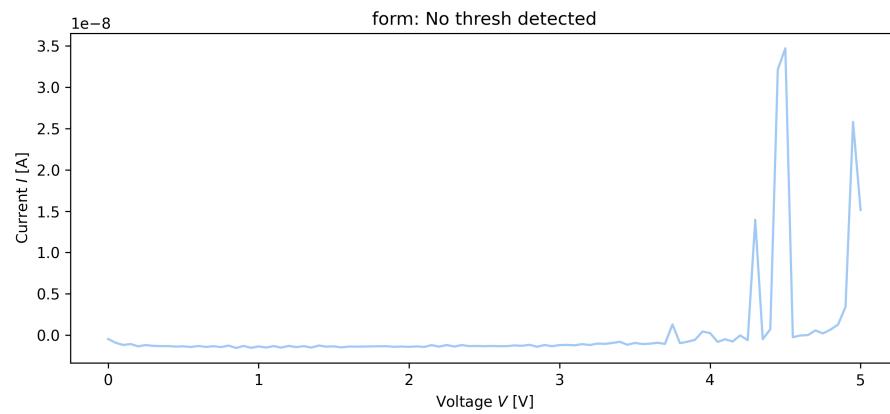
28	50.0	2.75	435.02	1.000
29	50.0	2.75	569.88	1.000
30	50.0	2.75	343.36	1.000
31	50.0	2.75	416.19	1.000
32	50.0	2.75	282.15	1.000



form

- **Time:** 05:06:35PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 1
- **Error:** Set failed

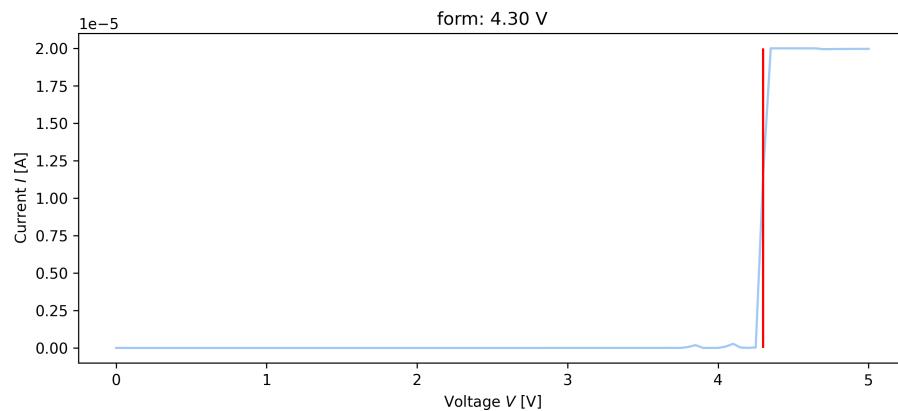
Did not form



form

- **Time:** 05:07:05PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 1
- **Set Voltage:** 4.30 V

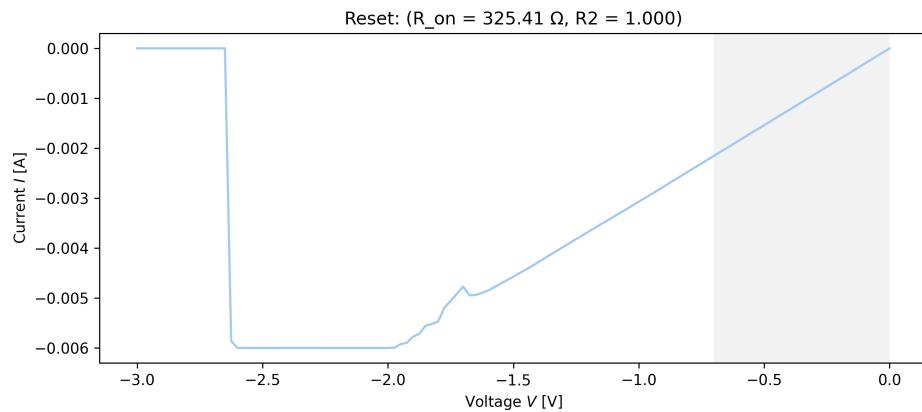
Formed at 4.35V



reset

- **Time:** 05:07:45PM
- **I_{cc}:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.812 V/s*
- **Cycle:** 1
- **Resistance:** 325.41 Ω
- **Linear Fit R₂:** 1.000

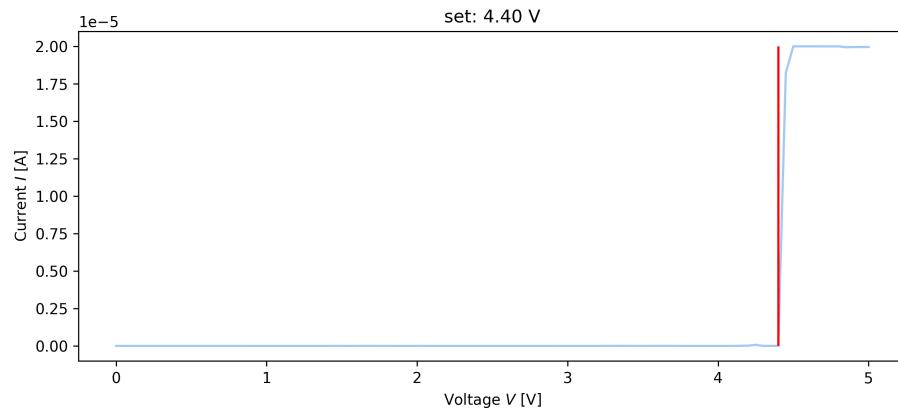
Reset, similar behavior to previous reset cell



set

- **Time:** 05:08:25PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 2
- **Set Voltage:** 4.40 V

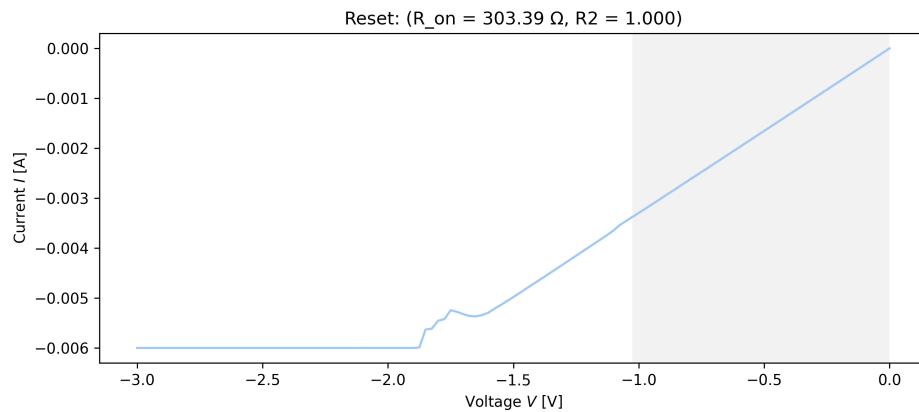
Set at 4.45V



reset

- **Time:** 05:08:50PM
- **I_{cc}:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s*
- **Cycle:** 2
- **Resistance:** 303.39 Ω
- **Linear Fit R₂:** 1.000

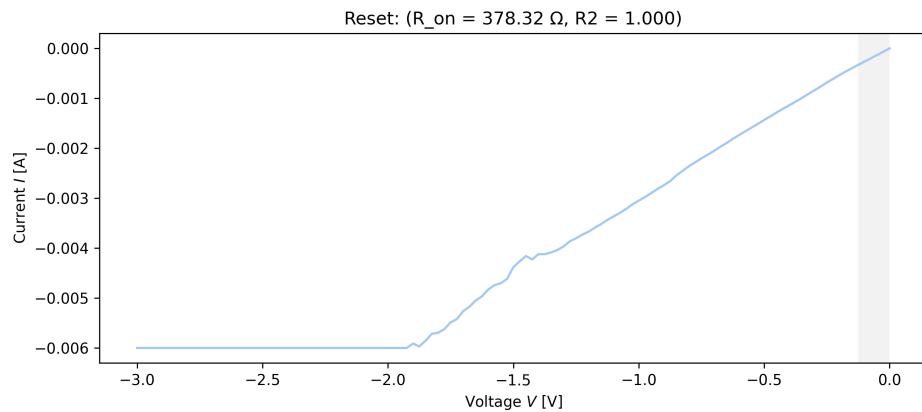
Did not reset



reset

- **Time:** 05:09:21PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.800 V/s*
- **Cycle:** 3
- **Resistance:** 378.32 Ω
- **Linear Fit R2:** 1.000

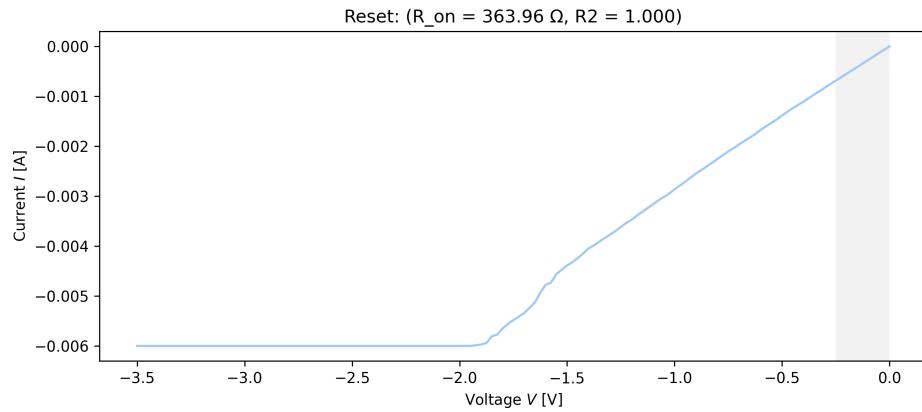
No Reset



reset

- **Time:** 05:09:52PM
- **I_{cc}:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.800 V/s*
- **Cycle:** 4
- **Resistance:** 363.96 Ω
- **Linear Fit R₂:** 1.000

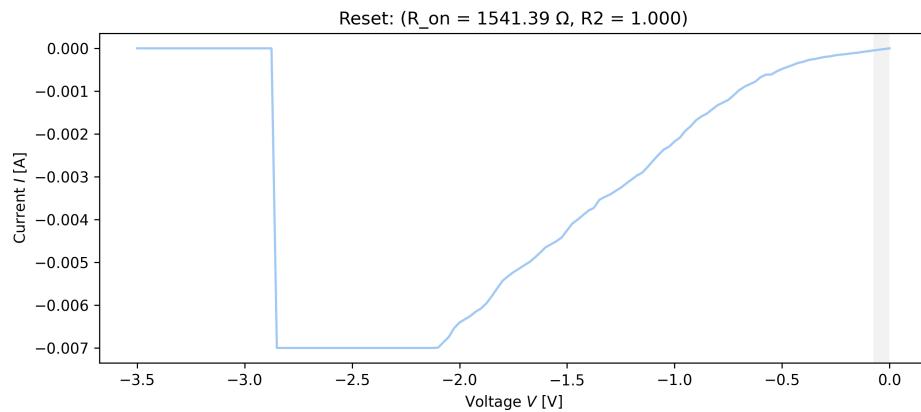
Did not reset again



reset

- **Time:** 05:10:27PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.658 V/s*
- **Cycle:** 5
- **Resistance:** 1541.39 Ω
- **Linear Fit R₂:** 1.000

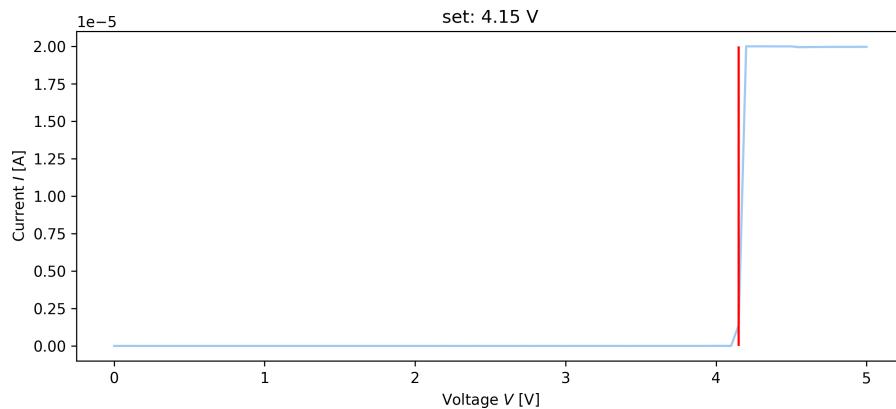
Reset



set

- **Time:** 05:10:54PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 6
- **Set Voltage:** 4.15 V

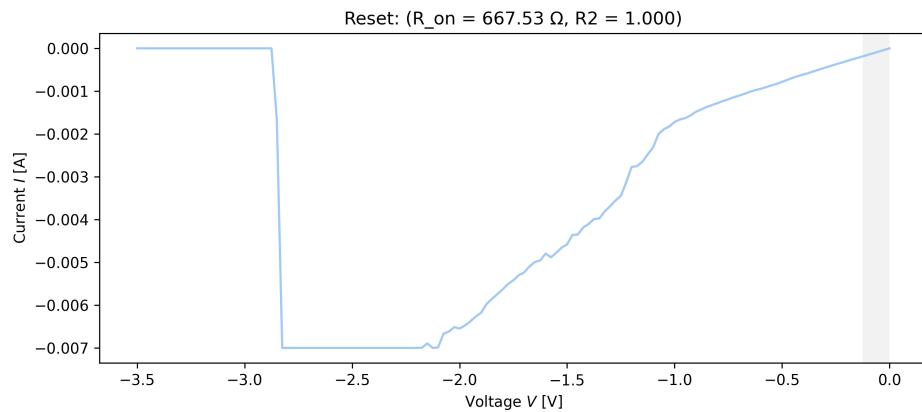
Set at 4.2V



reset

- **Time:** 05:11:24PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.703 V/s*
- **Cycle:** 6
- **Resistance:** 667.53 Ω
- **Linear Fit R₂:** 1.000

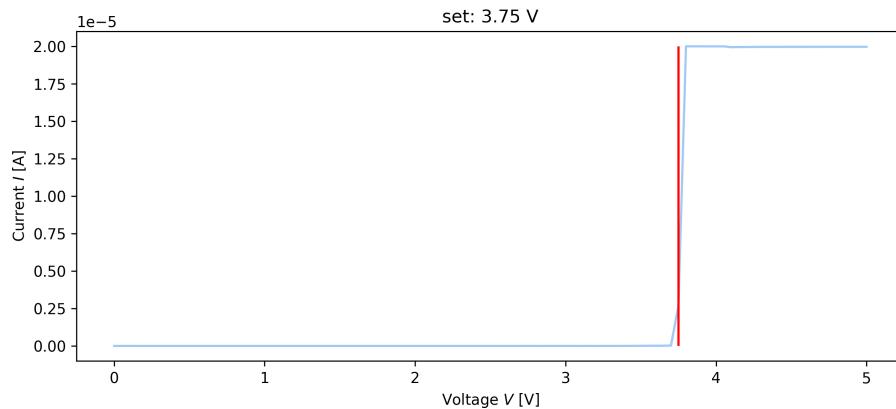
Reset, non constant slope



set

- **Time:** 05:12:01PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 7
- **Set Voltage:** 3.75 V

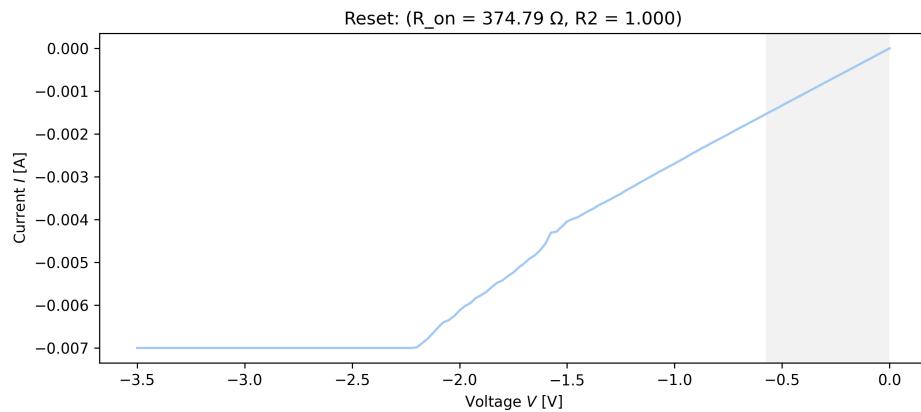
Set 3.8V



reset

- **Time:** 05:13:10PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.788 V/s*
- **Cycle:** 7
- **Resistance:** 374.79 Ω
- **Linear Fit R₂:** 1.000

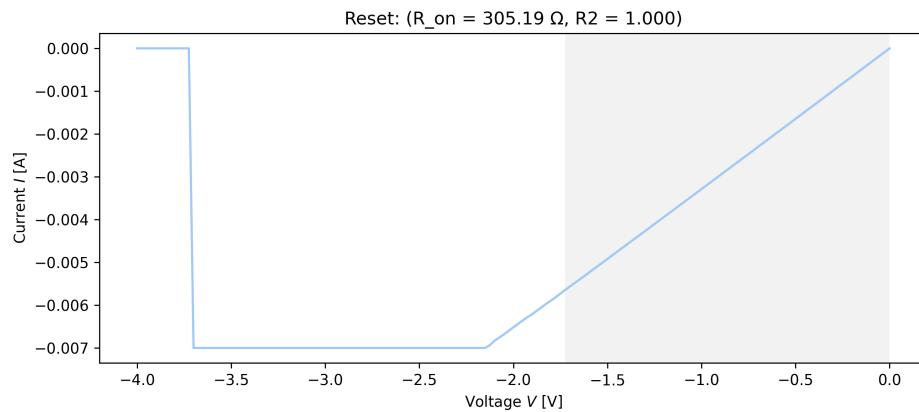
Did not reset



reset

- **Time:** 05:13:39PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s*
- **Cycle:** 8
- **Resistance:** 305.19 Ω
- **Linear Fit R₂:** 1.000

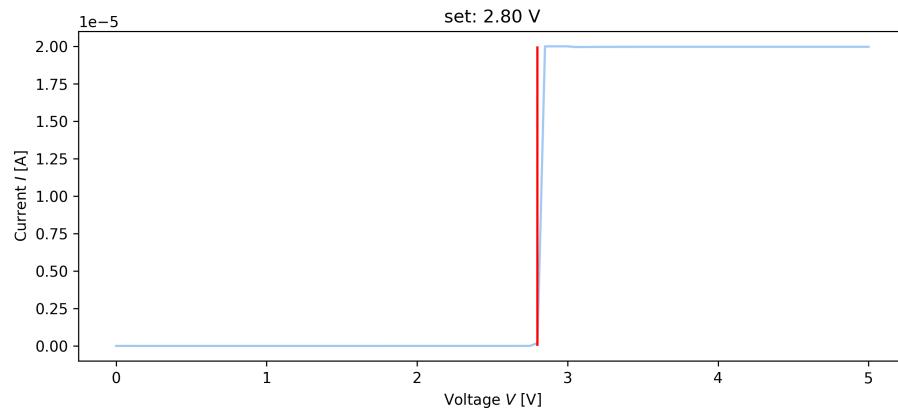
Decided to reset



set

- **Time:** 05:14:15PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 9
- **Set Voltage:** 2.80 V

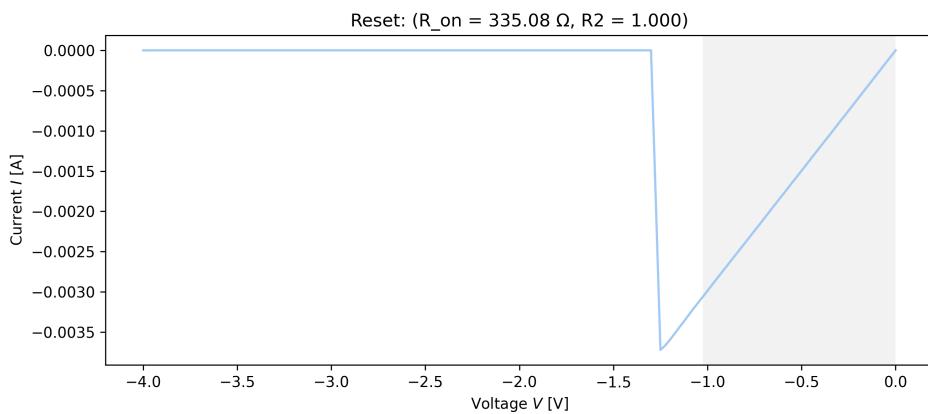
Set at 2.85V



reset

- **Time:** 05:14:47PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.812 V/s*
- **Cycle:** 9
- **Resistance:** 335.08 Ω
- **Linear Fit R₂:** 1.000

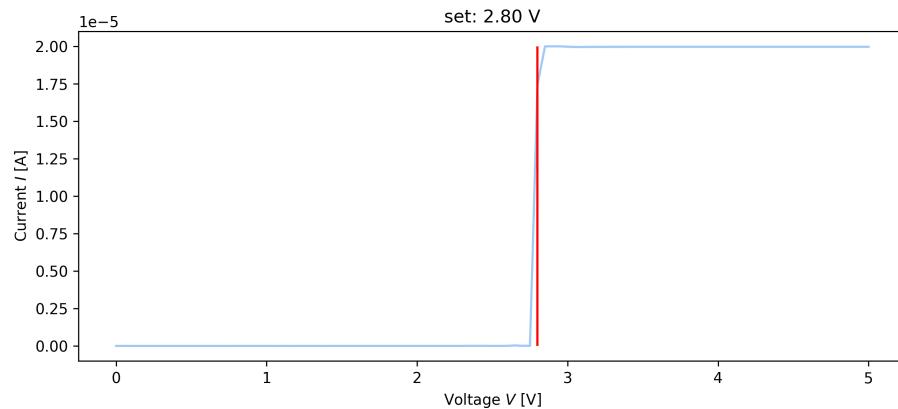
Reset nicely



set

- **Time:** 05:16:14PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 10
- **Set Voltage:** 2.80 V

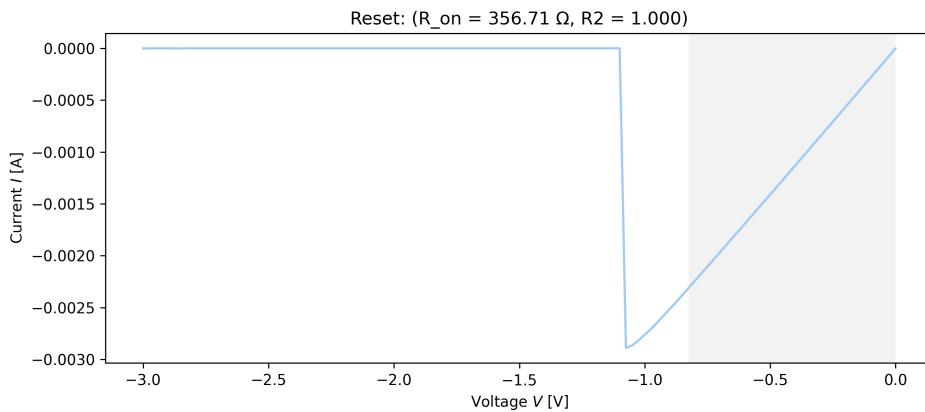
Set at 2.85V



reset

- **Time:** 05:16:55PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.800 V/s*
- **Cycle:** 10
- **Resistance:** 356.71 Ω
- **Linear Fit R₂:** 1.000

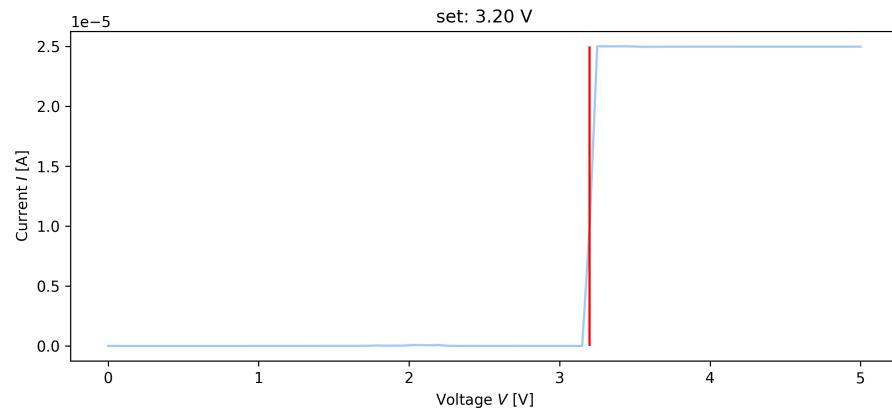
Reset nicely again



set

- **Time:** 05:18:40PM
- **Icc:** 25.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 11
- **Set Voltage:** 3.20 V

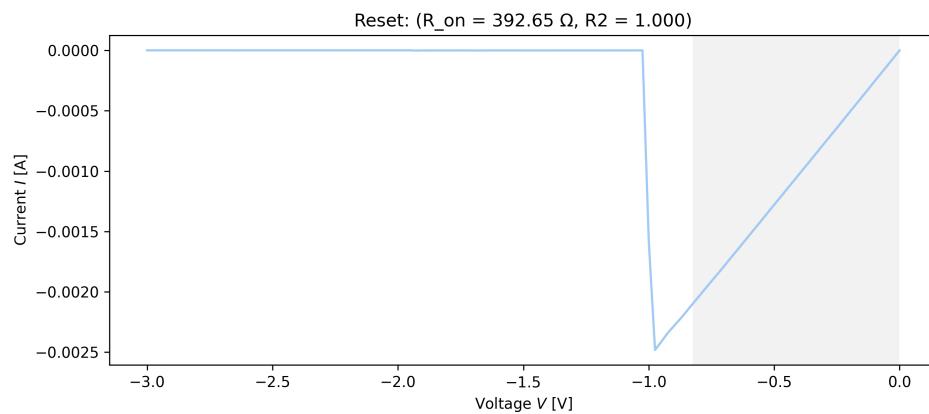
Set at 3.25V



reset

- **Time:** 05:20:19PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.788 V/s*
- **Cycle:** 11
- **Resistance:** 392.65 Ω
- **Linear Fit R₂:** 1.000

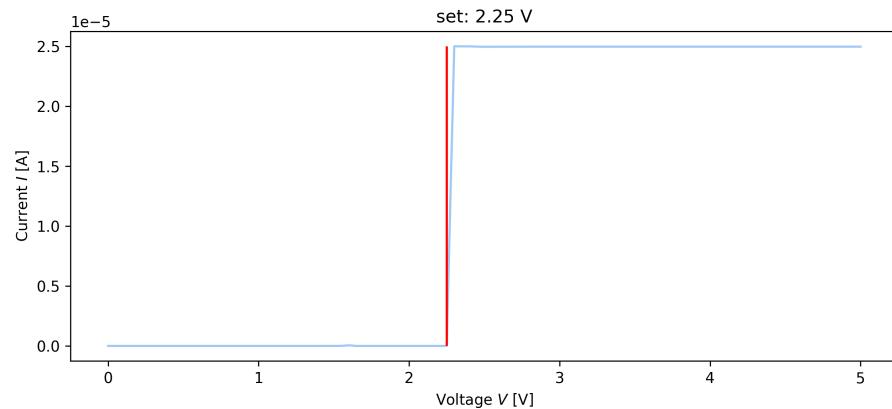
Reset, but slope was smaller instead of larger



set

- **Time:** 05:20:59PM
- **Icc:** 25.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 12
- **Set Voltage:** 2.25 V

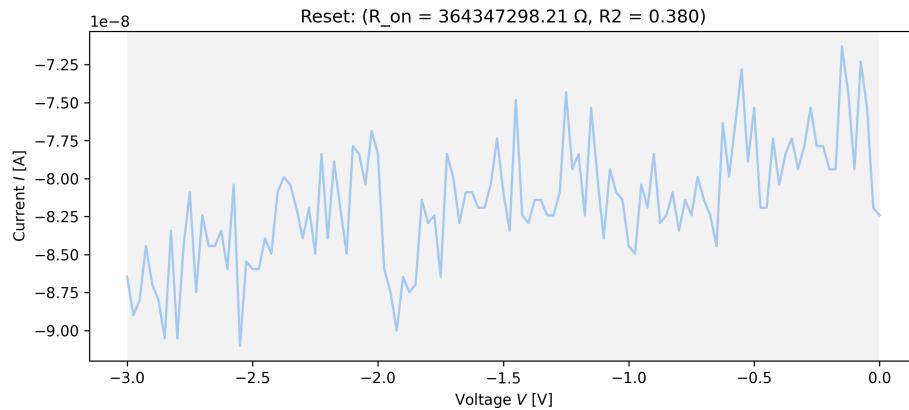
Set at 2.3V



reset

- **Time:** 05:21:57PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.548 V/s*
- **Cycle:** 12
- **Resistance:** 364347298.21 Ω
- **Linear Fit R₂:** 0.380

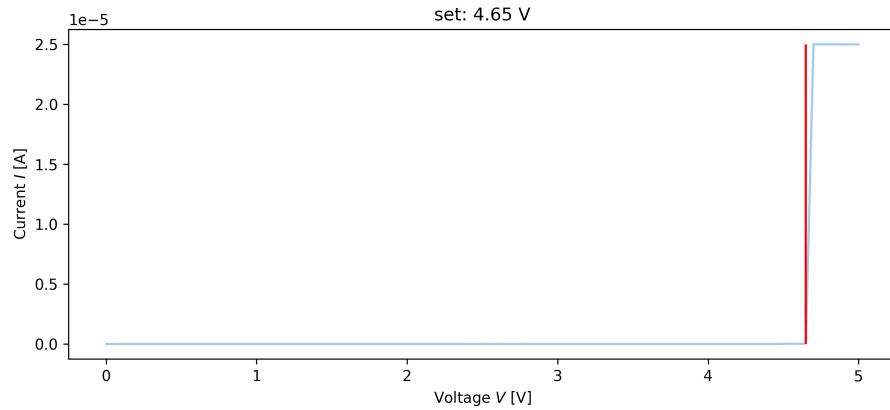
No conduction as if it wasn't set



set

- **Time:** 05:22:26PM
- **Icc:** 25.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 13
- **Set Voltage:** 4.65 V

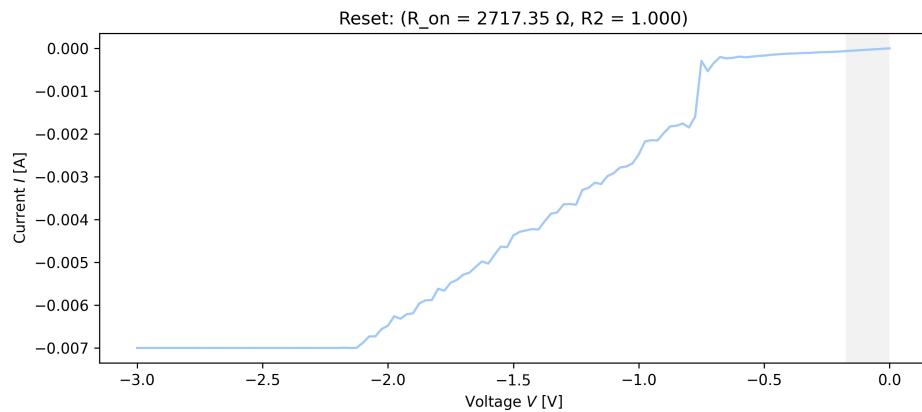
Set 4.7V, as if it was never formed



reset

- **Time:** 05:23:20PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.610 V/s*
- **Cycle:** 13
- **Resistance:** 2717.35 Ω
- **Linear Fit R₂:** 1.000

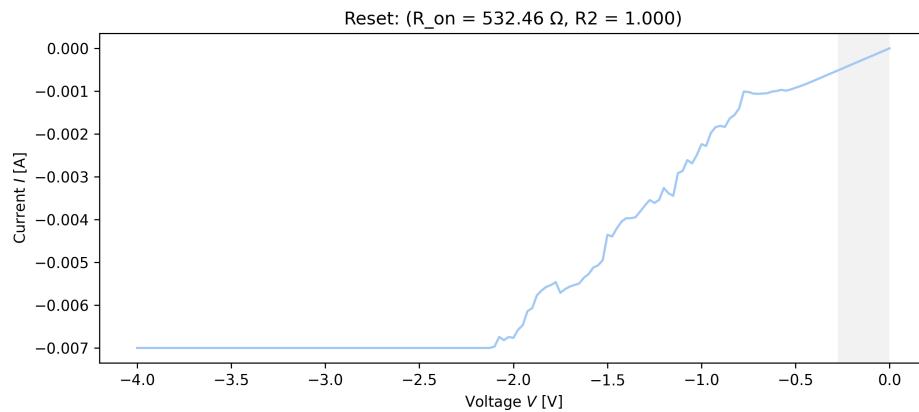
Did not reset



reset

- **Time:** 05:23:59PM
- **I_{cc}:** 7.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.723 V/s*
- **Cycle:** 14
- **Resistance:** 532.46 Ω
- **Linear Fit R₂:** 1.000

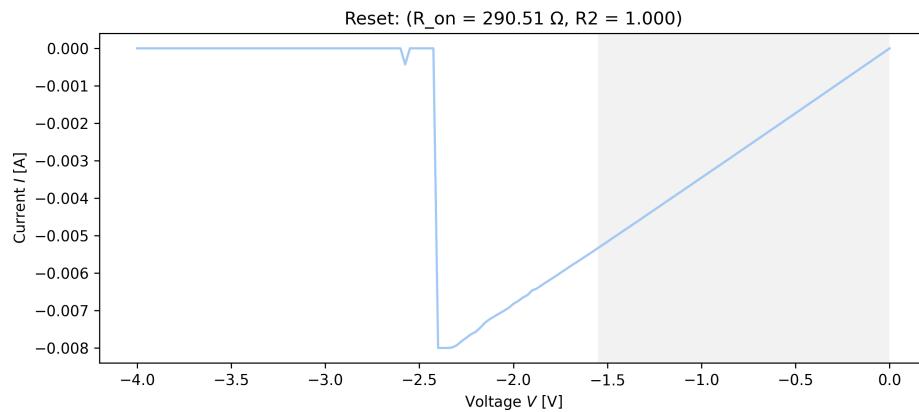
Did not reset still



reset

- **Time:** 05:24:28PM
- **Icc:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s*
- **Cycle:** 15
- **Resistance:** 290.51 Ω
- **Linear Fit R2:** 1.000

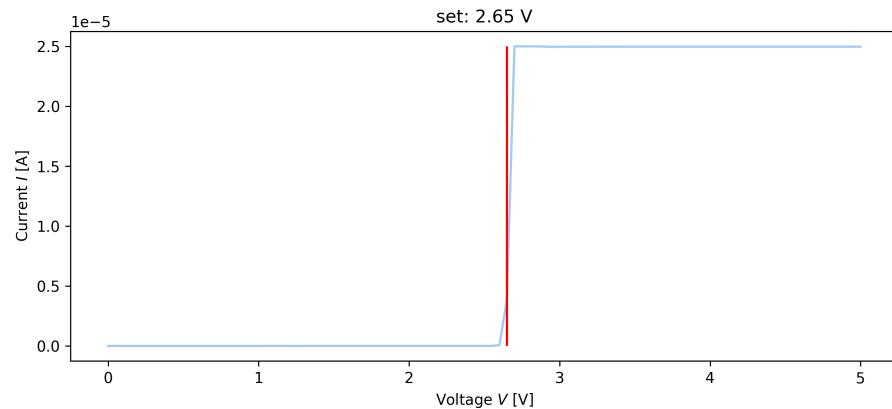
Reset, slope behaving as expected for larger set Icc



set

- **Time:** 05:25:52PM
- **Icc:** 25.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 16
- **Set Voltage:** 2.65 V

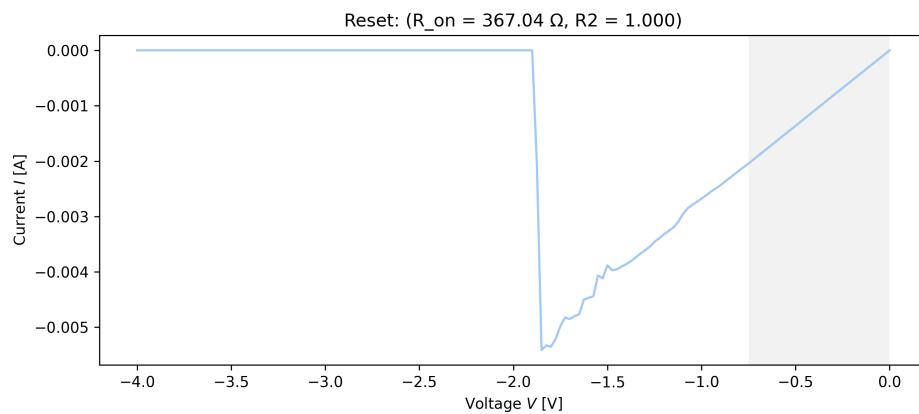
Set at 2.7V



reset

- **Time:** 05:27:13PM
- **I_{cc}:** 6.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.800 V/s*
- **Cycle:** 16
- **Resistance:** 367.04 Ω
- **Linear Fit R₂:** 1.000

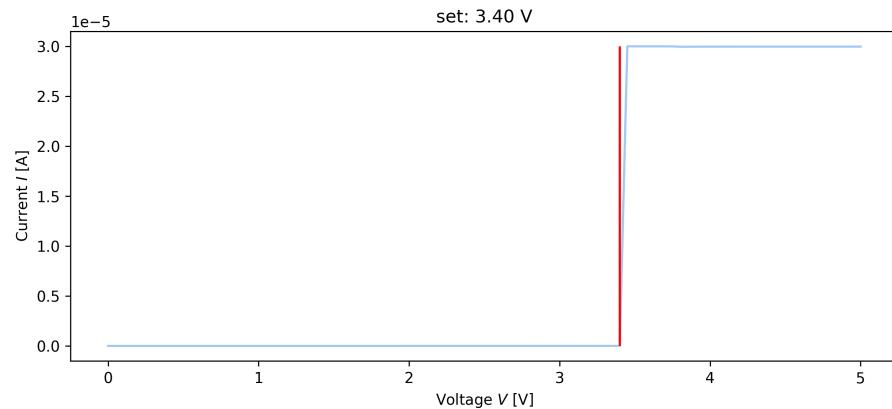
Successfully reset, steeper slope than 259



set

- **Time:** 05:28:40PM
- **Icc:** 30.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 17
- **Set Voltage:** 3.40 V

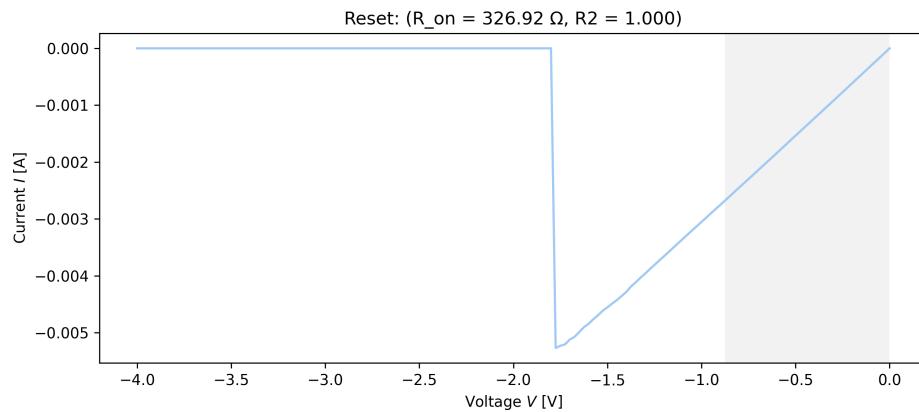
Set at 3.45V



reset

- **Time:** 05:29:24PM
- **I_{cc}:** 6.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.812 V/s*
- **Cycle:** 17
- **Resistance:** 326.92 Ω
- **Linear Fit R₂:** 1.000

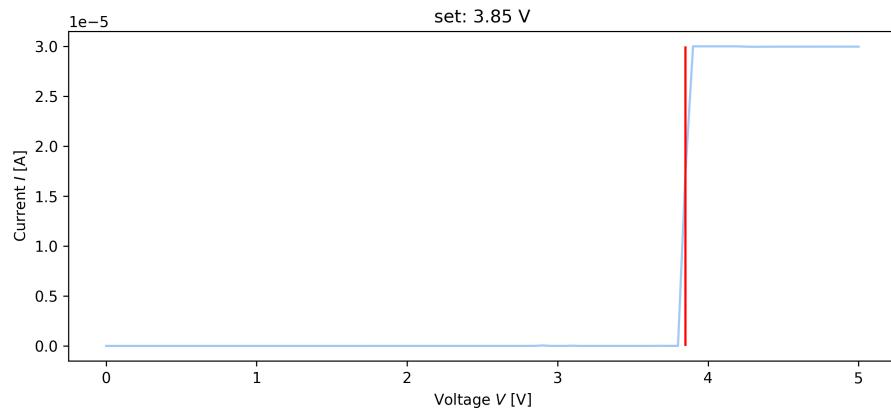
Reset, slope steeper than previous reset



set

- **Time:** 05:30:59PM
- **Icc:** 30.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 18
- **Set Voltage:** 3.85 V

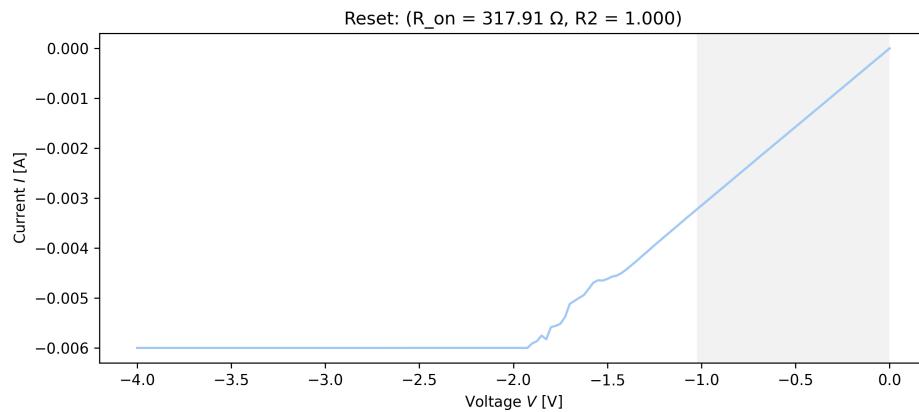
Set at 3.9V



reset

- **Time:** 05:31:24PM
- **I_{cc}:** 6.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.812 V/s*
- **Cycle:** 18
- **Resistance:** 317.91 Ω
- **Linear Fit R₂:** 1.000

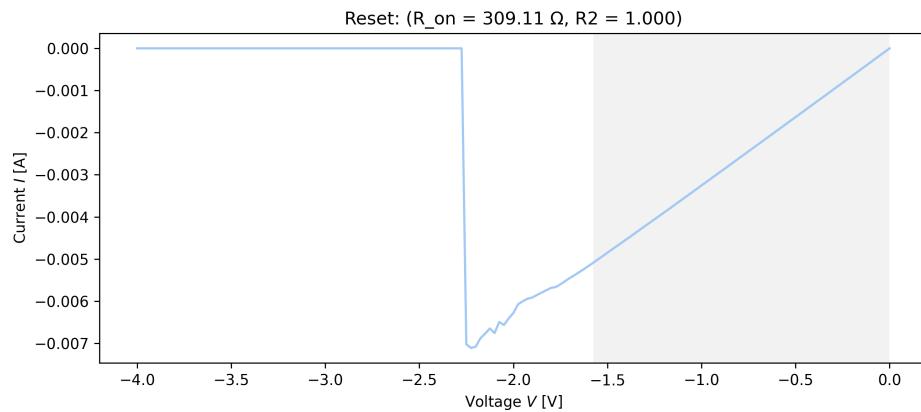
Did not Reset



reset

- **Time:** 05:31:50PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s*
- **Cycle:** 19
- **Resistance:** 309.11 Ω
- **Linear Fit R₂:** 1.000

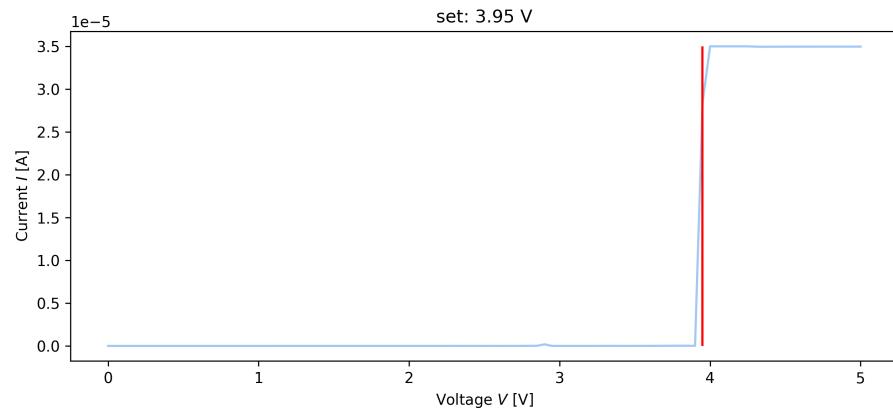
Reset



set

- **Time:** 05:33:18PM
- **Icc:** 35.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 20
- **Set Voltage:** 3.95 V

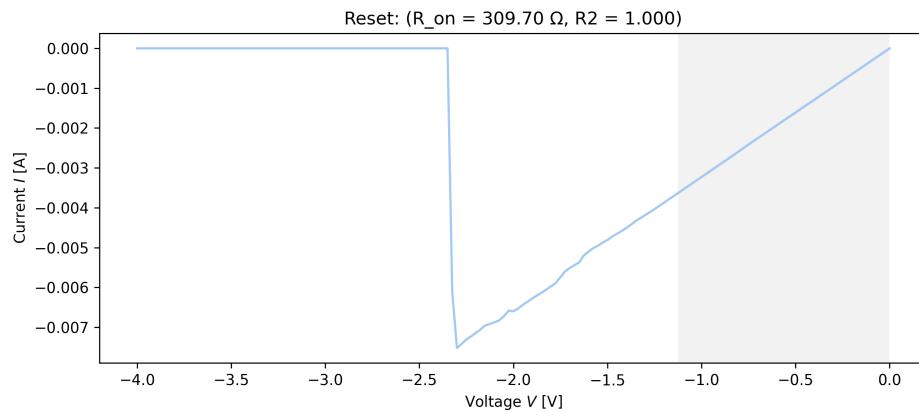
Set at 4V



reset

- **Time:** 05:33:56PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s*
- **Cycle:** 20
- **Resistance:** 309.70 Ω
- **Linear Fit R₂:** 1.000

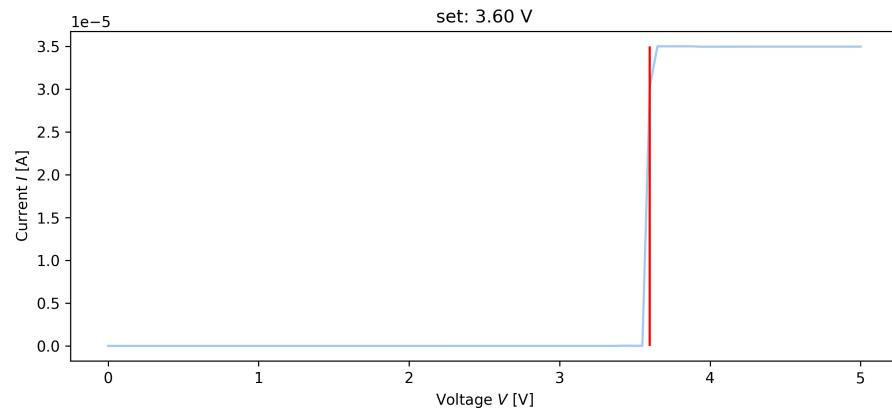
Reset nicely



set

- **Time:** 05:35:02PM
- **Icc:** 35.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 21
- **Set Voltage:** 3.60 V

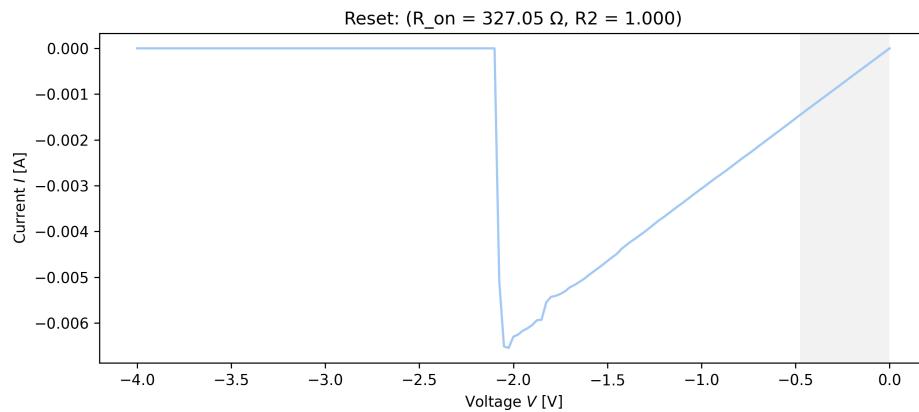
Set at 3.65V



reset

- **Time:** 05:35:32PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.812 V/s*
- **Cycle:** 21
- **Resistance:** 327.05 Ω
- **Linear Fit R₂:** 1.000

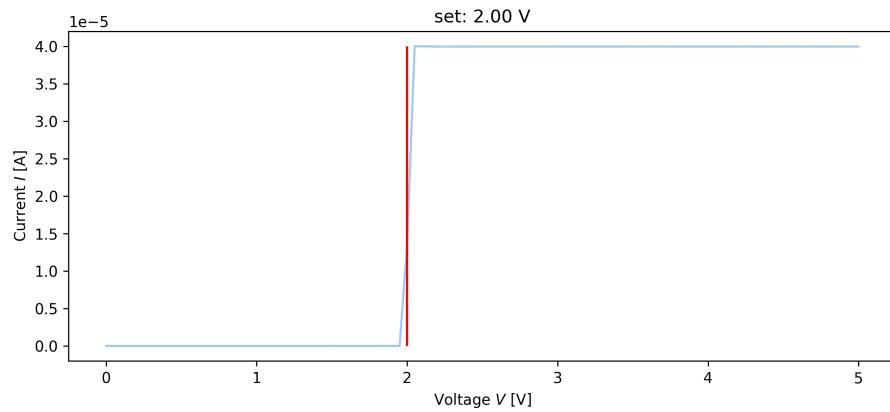
Reset nicely



set

- **Time:** 05:36:29PM
- **Icc:** 40.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 22
- **Set Voltage:** 2.00 V

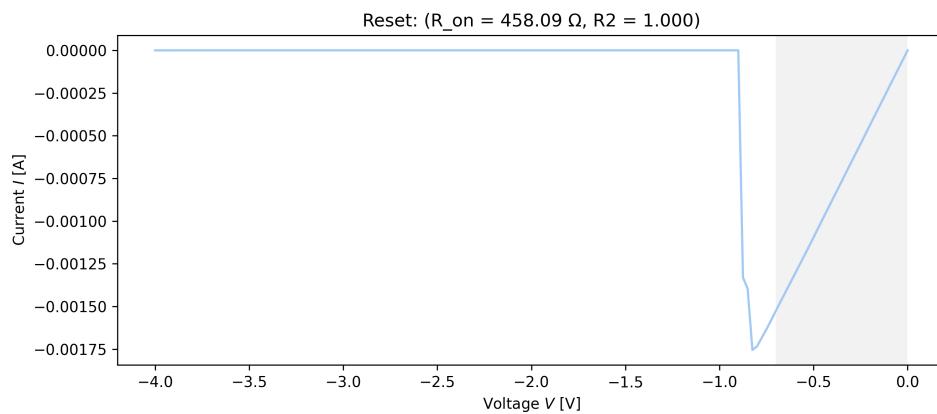
Set at 2.05V



reset

- **Time:** 05:37:10PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.720 V/s*
- **Cycle:** 22
- **Resistance:** 458.09 Ω
- **Linear Fit R₂:** 1.000

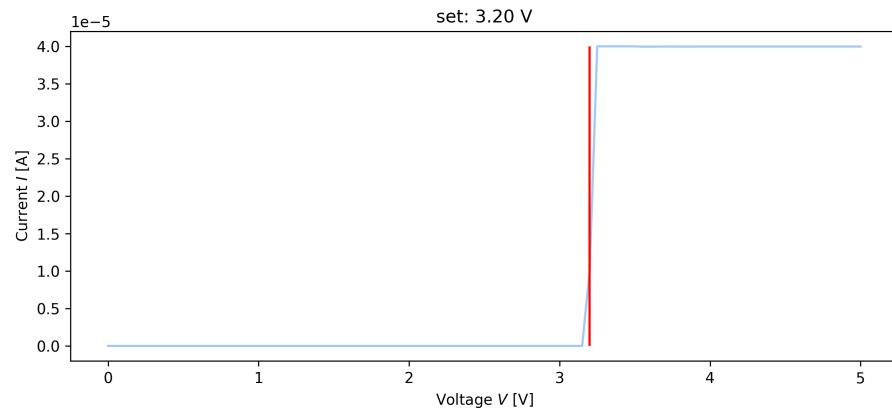
Reset, slope going opposite direction than expected



set

- **Time:** 05:37:54PM
- **Icc:** 40.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 23
- **Set Voltage:** 3.20 V

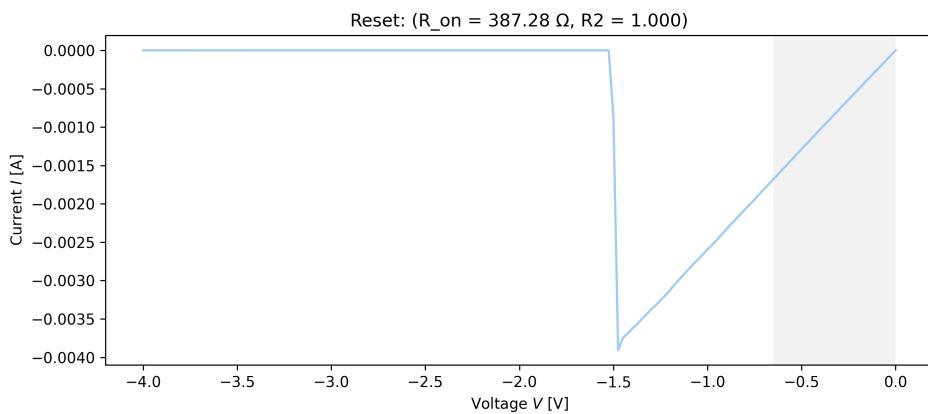
Set at 3.25V



reset

- **Time:** 05:38:17PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.788 V/s*
- **Cycle:** 23
- **Resistance:** 387.28 Ω
- **Linear Fit R₂:** 1.000

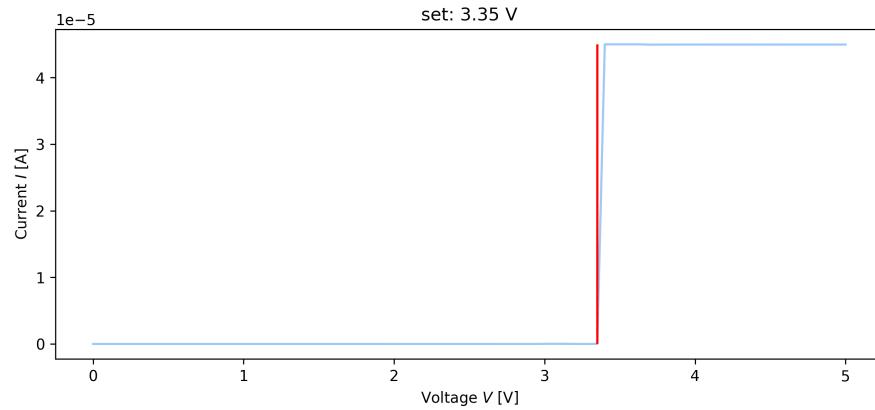
Reset, slope still opposite of expected



set

- **Time:** 05:40:02PM
- **Icc:** 45.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 24
- **Set Voltage:** 3.35 V

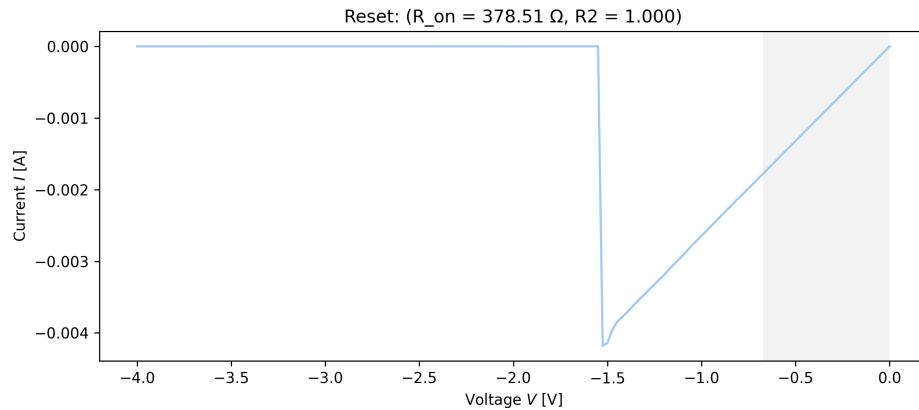
Set at 3.4V



reset

- **Time:** 05:40:31PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.788 V/s*
- **Cycle:** 24
- **Resistance:** 378.51 Ω
- **Linear Fit R₂:** 1.000

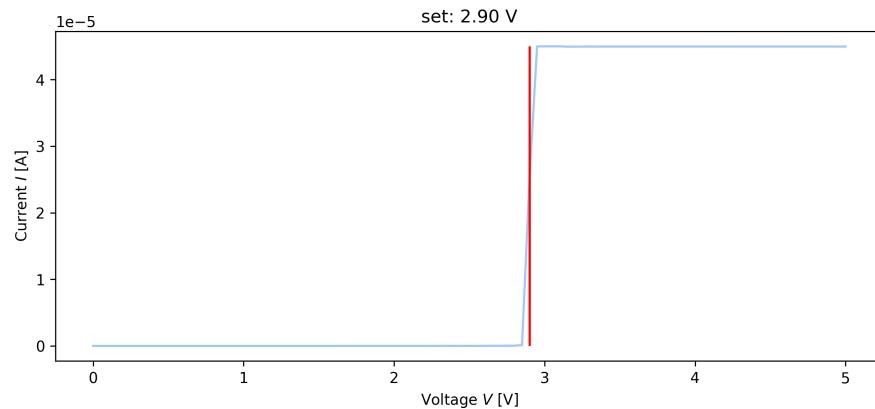
Reset, steeper slope than 40uA but not that of 35uA



set

- **Time:** 05:43:23PM
- **I_{cc}:** 45.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 25
- **Set Voltage:** 2.90 V

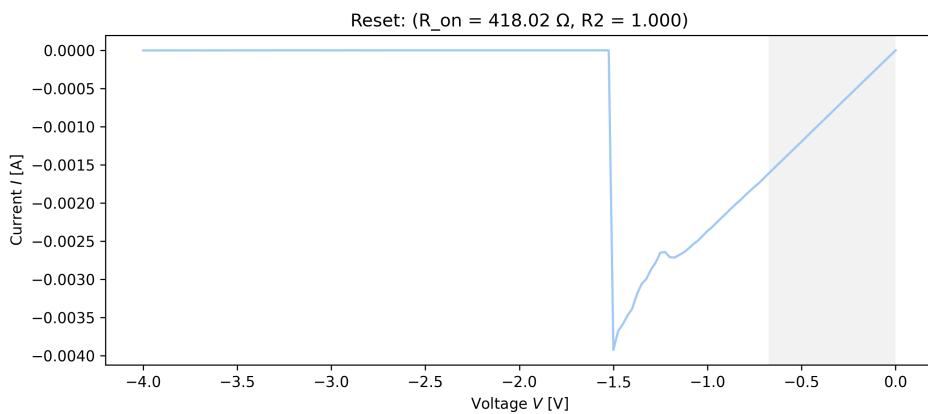
Set at 2.95V



reset

- **Time:** 05:43:53PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.777 V/s*
- **Cycle:** 25
- **Resistance:** 418.02 Ω
- **Linear Fit R₂:** 1.000

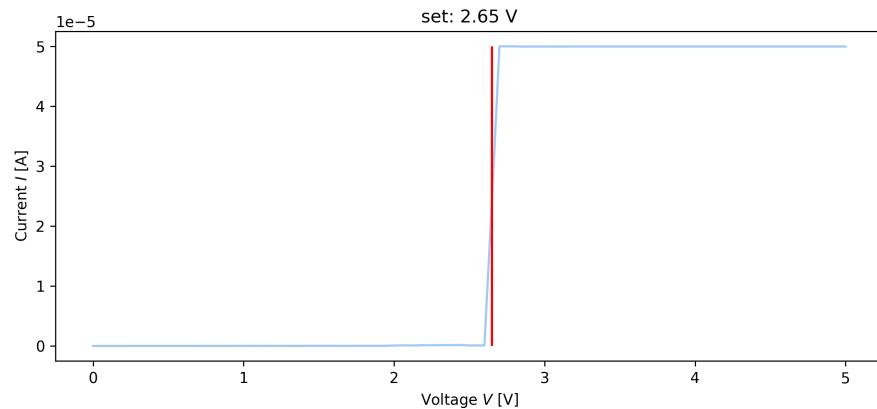
Reset at slightly higher slope than 268



set

- **Time:** 05:44:27PM
- **Icc:** 50.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 26
- **Set Voltage:** 2.65 V

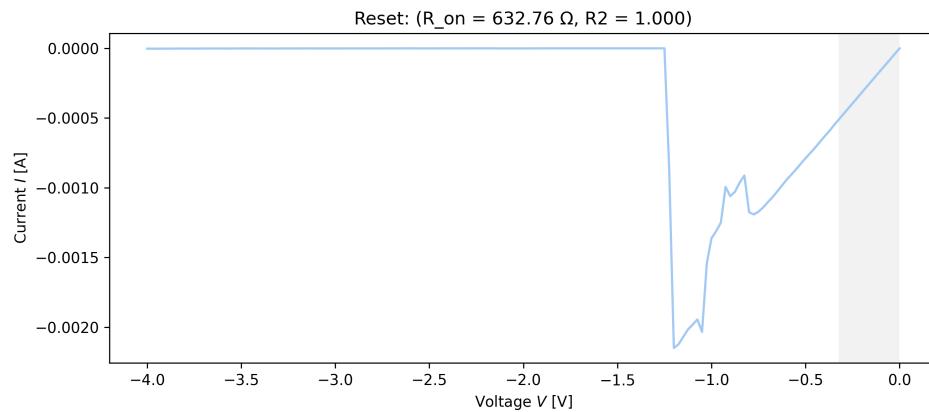
Set at 2.7V



reset

- **Time:** 05:44:58PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.703 V/s*
- **Cycle:** 26
- **Resistance:** 632.76 Ω
- **Linear Fit R₂:** 1.000

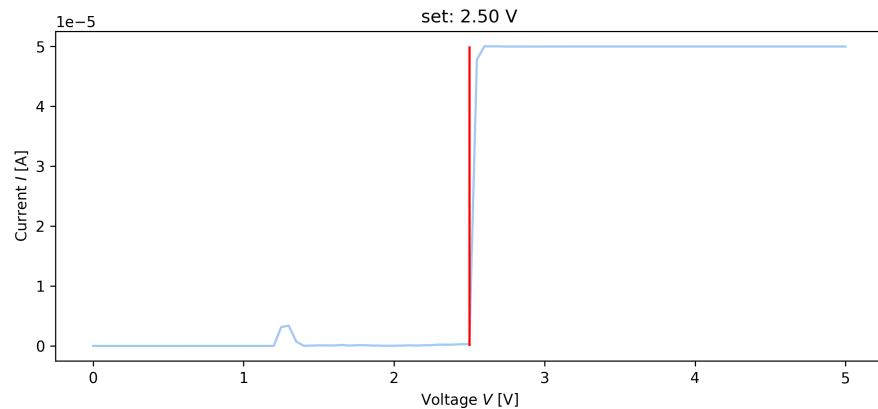
Reset, much smaller slope and slightly erratic



set

- **Time:** 05:45:27PM
- **Icc:** 50.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 27
- **Set Voltage:** 2.50 V

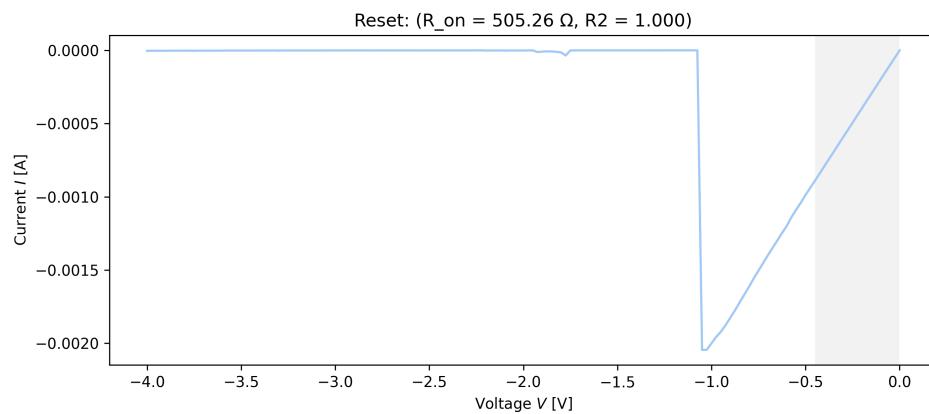
Set at 2.6V



reset

- **Time:** 05:45:54PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.743 V/s*
- **Cycle:** 27
- **Resistance:** 505.26 Ω
- **Linear Fit R₂:** 1.000

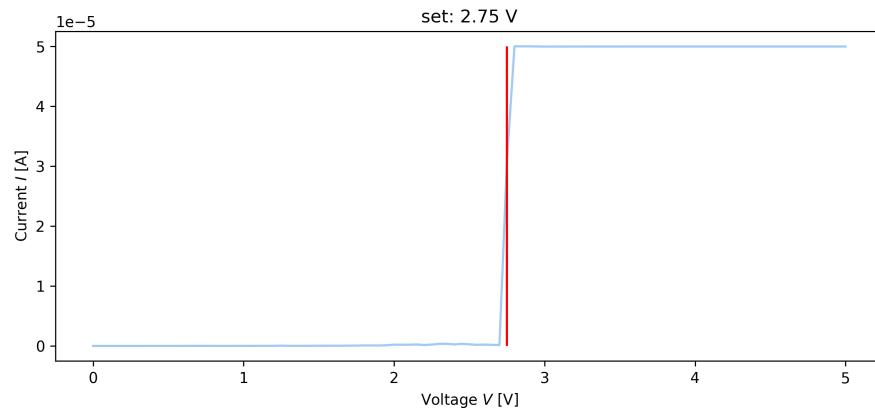
Reset, shallower slope than Run 269



set

- **Time:** 05:46:27PM
- **Icc:** 50.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 28
- **Set Voltage:** 2.75 V

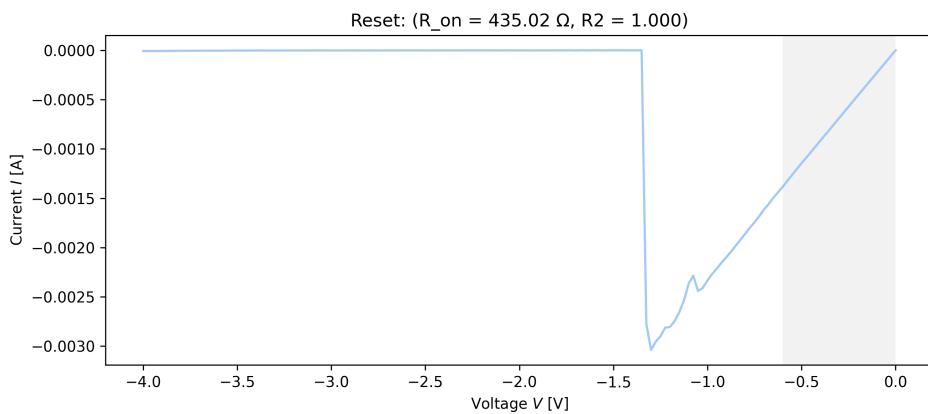
set at 2.8V



reset

- **Time:** 05:46:52PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s*
- **Cycle:** 28
- **Resistance:** 435.02 Ω
- **Linear Fit R₂:** 1.000

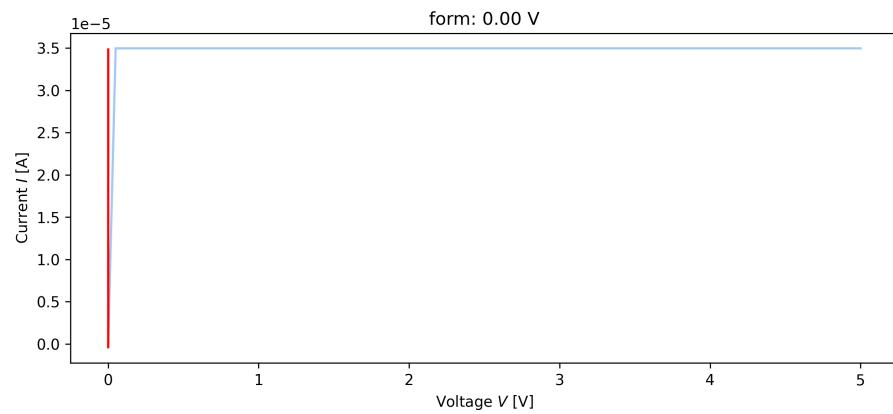
Reset



form

- **Time:** 05:00:16PM
- **Icc:** 35.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.836 V/s*
- **Cycle:** 29
- **Error:** Set failed

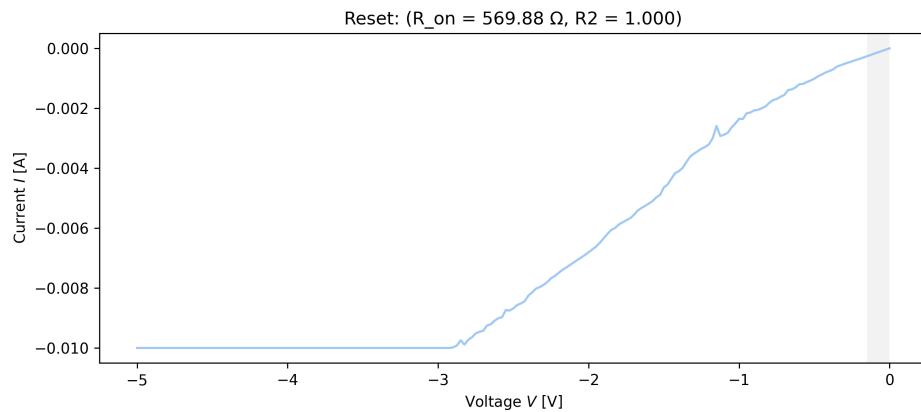
Set, everything in array may be shorted



reset

- **Time:** 05:00:33PM
- **I_{cc}:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.743 V/s*
- **Cycle:** 29
- **Resistance:** 569.88 Ω
- **Linear Fit R₂:** 1.000

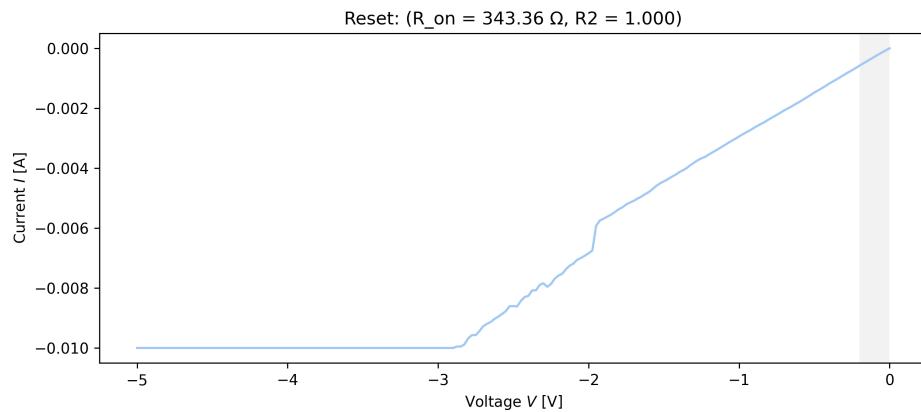
Didn't Reset



reset

- **Time:** 05:00:47PM
- **I_{cc}:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.812 V/s*
- **Cycle:** 30
- **Resistance:** 343.36 Ω
- **Linear Fit R₂:** 1.000

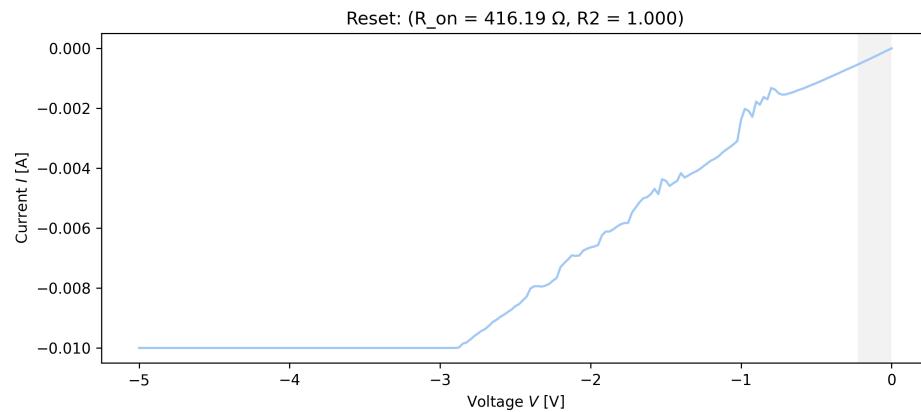
Didn't Reset



reset

- **Time:** 05:01:07PM
- **I_{cc}:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s*
- **Cycle:** 31
- **Resistance:** 416.19 Ω
- **Linear Fit R₂:** 1.000

Didn't Reset



reset

- **Time:** 05:01:39PM
- **I_{cc}:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.839 V/s*
- **Cycle:** 32
- **Resistance:** 282.15 Ω
- **Linear Fit R₂:** 1.000

Didn't Reset

