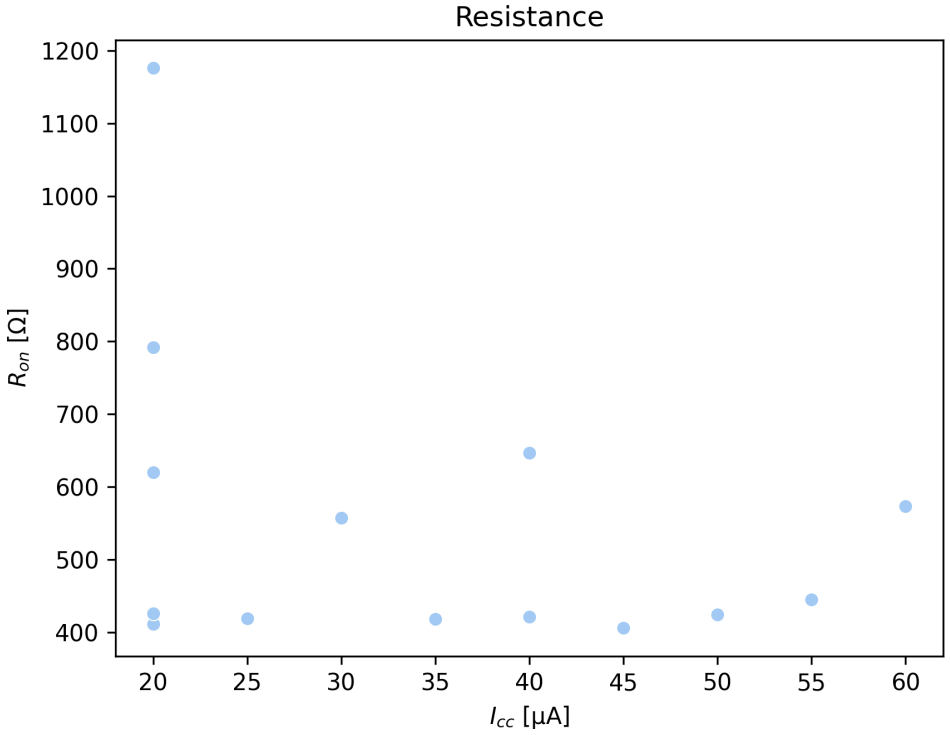
(wafer2,2,0,-1,-1,0,4) Characteristics

- **Cell Size:** 15um
- **Times Accessed:** 30
- **Last Measurement:** 2022/March/17 at 05:31:28PM

Summary

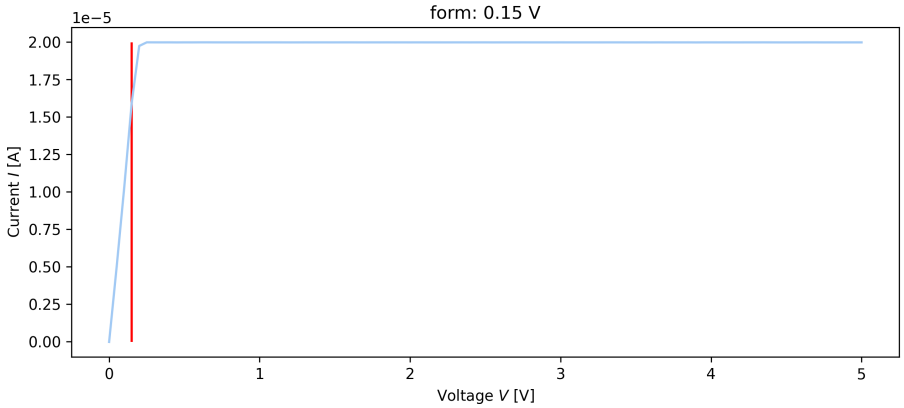
Cycle #	Set Icc (μA)	Set Voltage (V)	R_on (Ω)	R2
1	20.0	0.15	1176.17	1.000
2	20.0	4.20	411.25	1.000
3	20.0	2.10	791.62	1.000
4	20.0	3.10	425.66	1.000
5	20.0	3.65	620.05	1.000
6	25.0	2.85	419.02	1.000
7	30.0	2.75	556.83	1.000
8	35.0	3.60	418.09	1.000
9	40.0	3.10	646.72	1.000
10	40.0	2.95	420.93	1.000
11	45.0	3.45	405.61	1.000
12	50.0	3.15	424.12	1.000
13	55.0	2.30	444.85	1.000
14	60.0	2.80	573.20	1.000


Resistance
1200
1100
1000
900
800
700
600
500
400
R_{on} [Ω]
20
25
30
35
40
45
50
55
60
I_{cc} [μA]

form

- **Time:** 04:52:58PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.776 V/s*
- **Cycle:** 1
- **Set Voltage:** 0.15 V

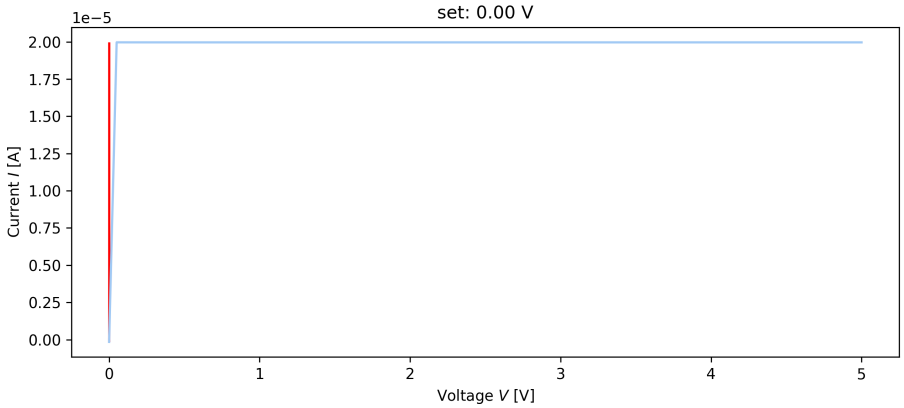
Early form at 0.2 V



set

- **Time:** 04:54:56PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.839 V/s*
- **Cycle:** 1
- **Error:** Set failed

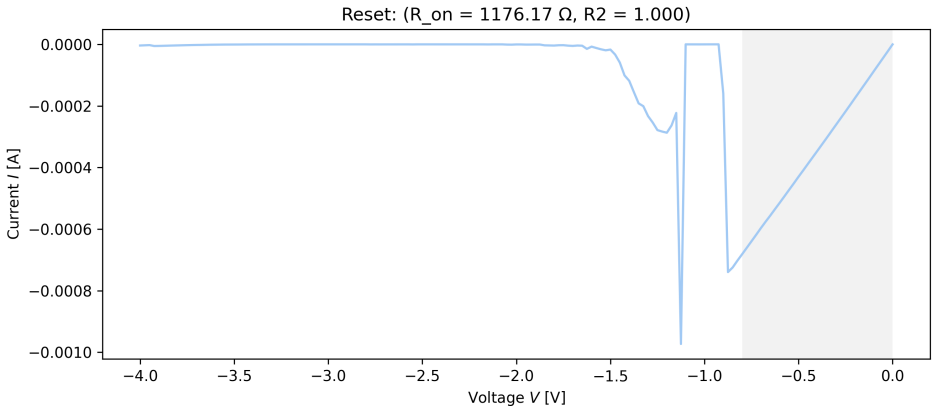
Already set



reset

- **Time:** 04:56:00PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.559 V/s*
- **Cycle:** 1
- **Resistance:** 1176.17 Ω
- **Linear Fit R2:** 1.000

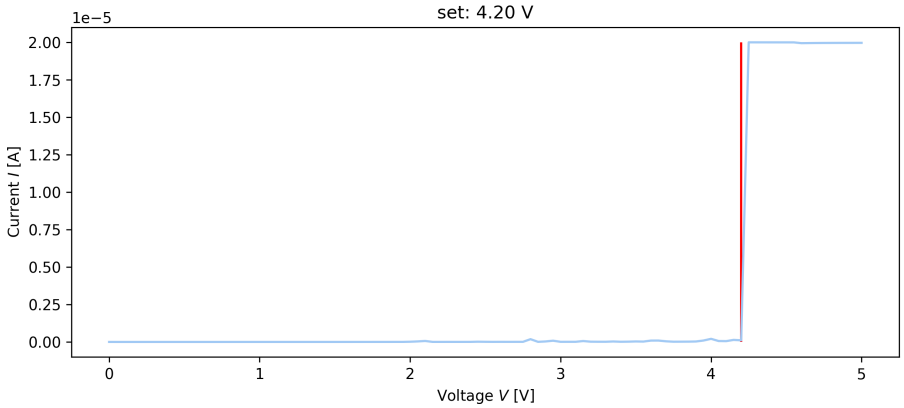
Reset



set

- **Time:** 04:58:08PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 2
- **Set Voltage:** 4.20 V

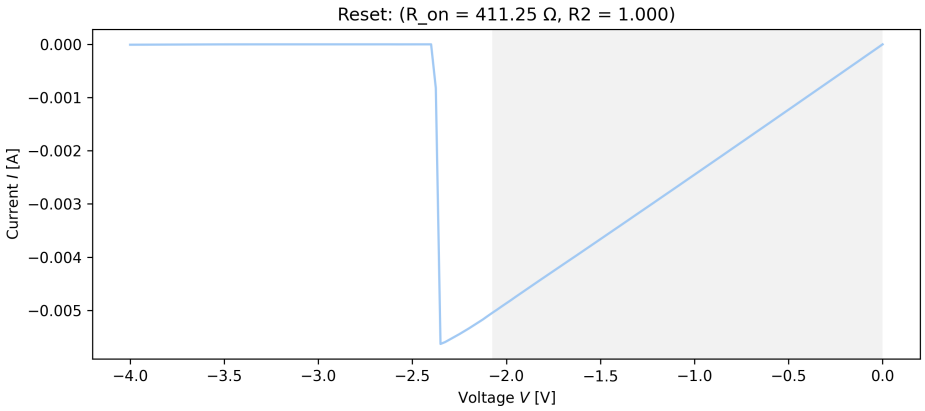
Set at 4.25 V



reset

- **Time:** 04:59:14PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.777 V/s*
- **Cycle:** 2
- **Resistance:** 411.25 Ω
- **Linear Fit R2:** 1.000

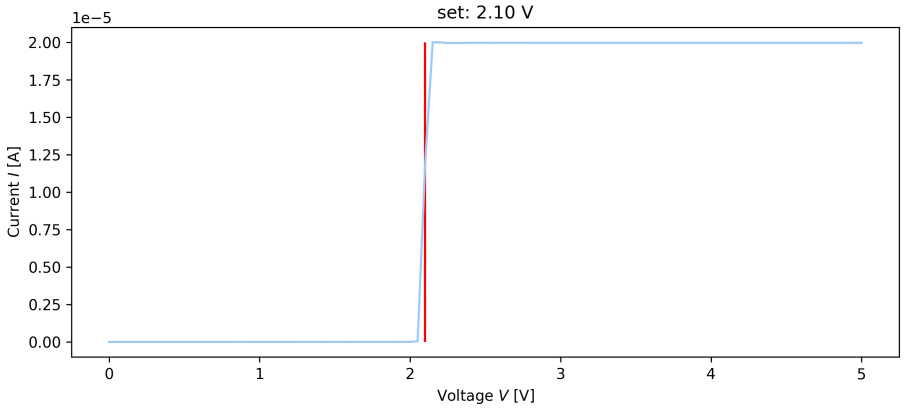
Reset



set

- **Time:** 05:00:05PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 3
- **Set Voltage:** 2.10 V

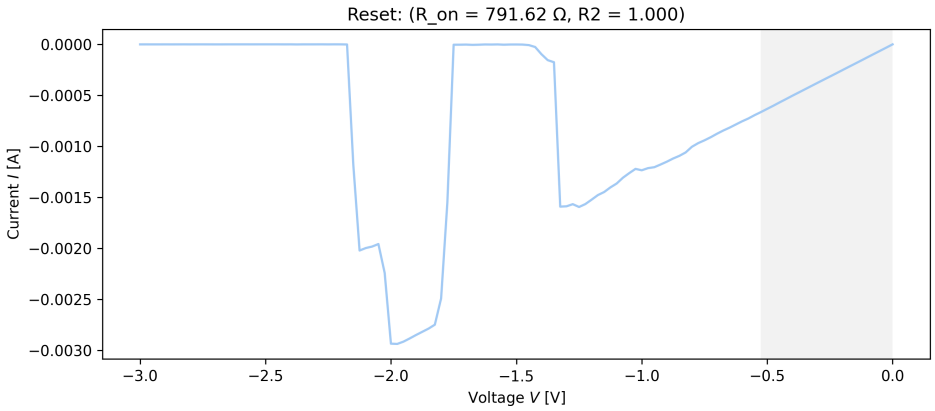
Set at 2.15 V



reset

- **Time:** 05:00:47PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.659 V/s*
- **Cycle:** 3
- **Resistance:** 791.62 Ω
- **Linear Fit R2:** 1.000

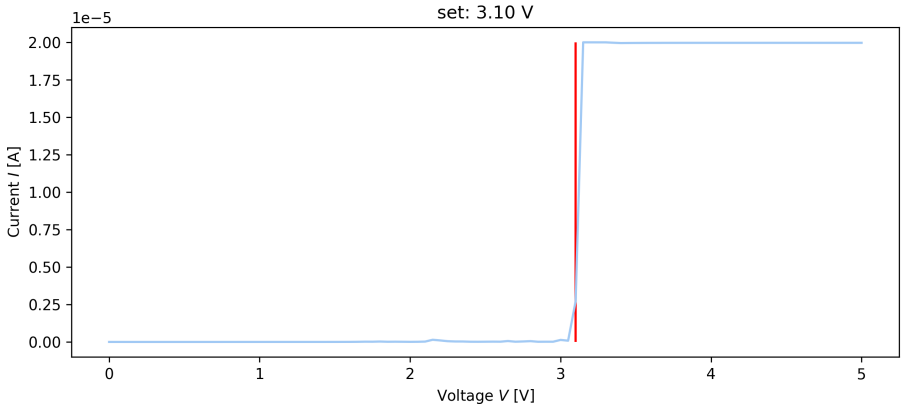
Reset



set

- **Time:** 05:01:30PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 4
- **Set Voltage:** 3.10 V

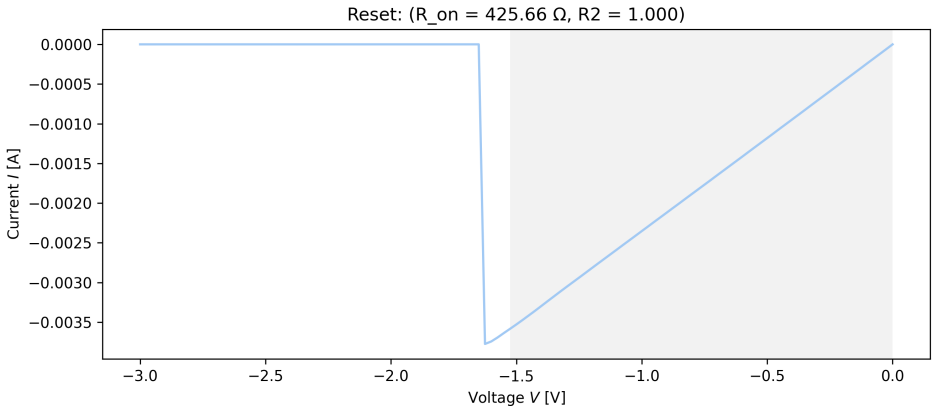
Set at 3.15 V



reset

- **Time:** 05:02:14PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s*
- **Cycle:** 4
- **Resistance:** 425.66 Ω
- **Linear Fit R2:** 1.000

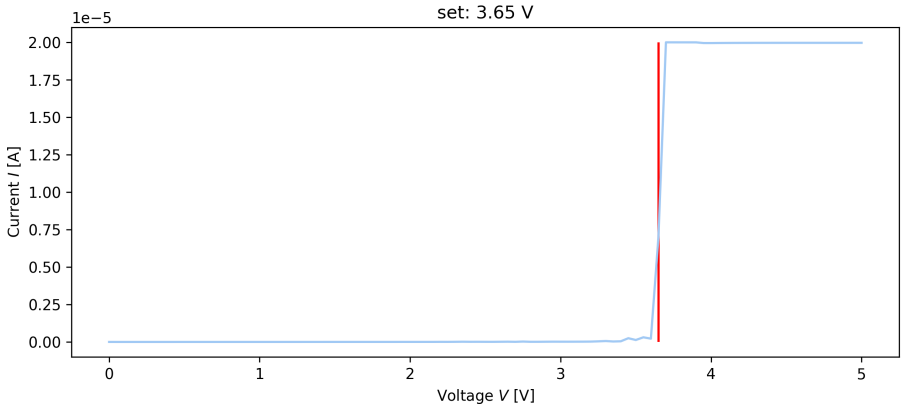
Reset



set

- **Time:** 05:02:58PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 5
- **Set Voltage:** 3.65 V

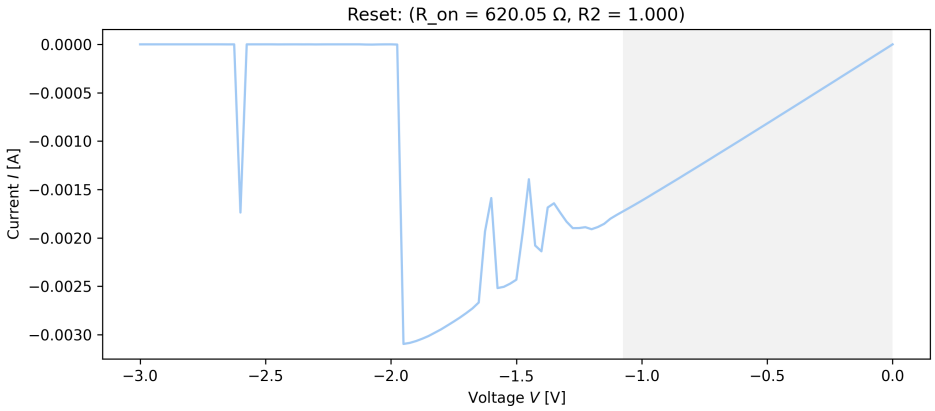
Set lower than forming voltage



reset

- **Time:** 05:03:56PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.713 V/s*
- **Cycle:** 5
- **Resistance:** 620.05 Ω
- **Linear Fit R2:** 1.000

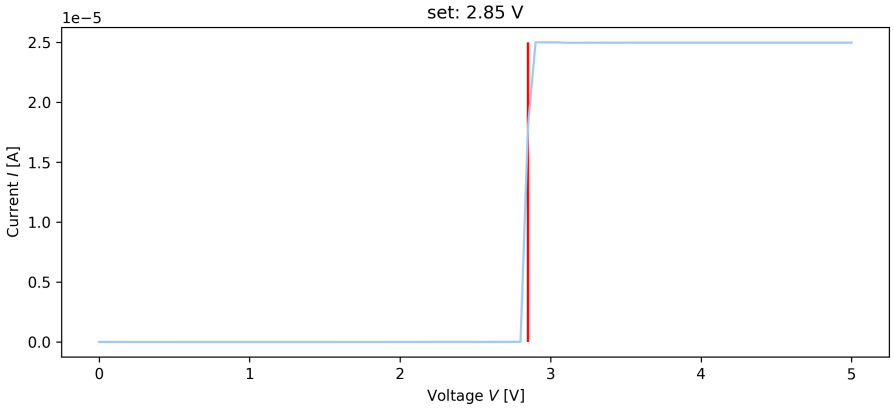
Reset



set

- **Time:** 05:04:52PM
- **Icc:** 25.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 6
- **Set Voltage:** 2.85 V

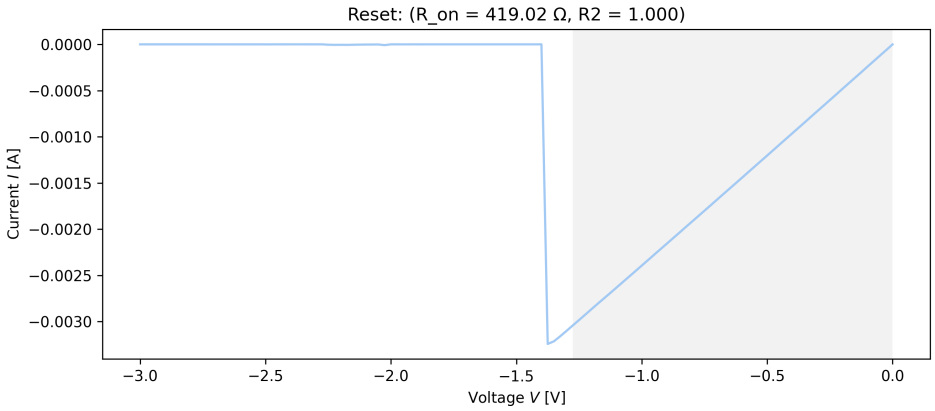
Set at 2.9 V



reset

- **Time:** 05:05:35PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.777 V/s*
- **Cycle:** 6
- **Resistance:** 419.02 Ω
- **Linear Fit R2:** 1.000

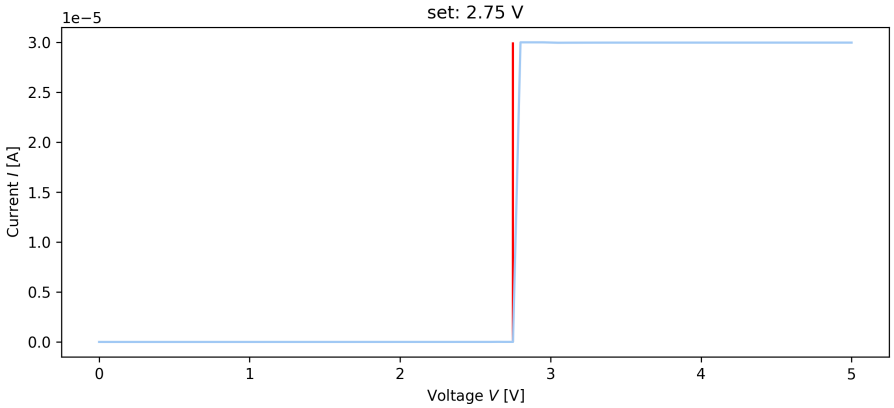
Reset



set

- **Time:** 05:06:50PM
- **Icc:** 30.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 7
- **Set Voltage:** 2.75 V

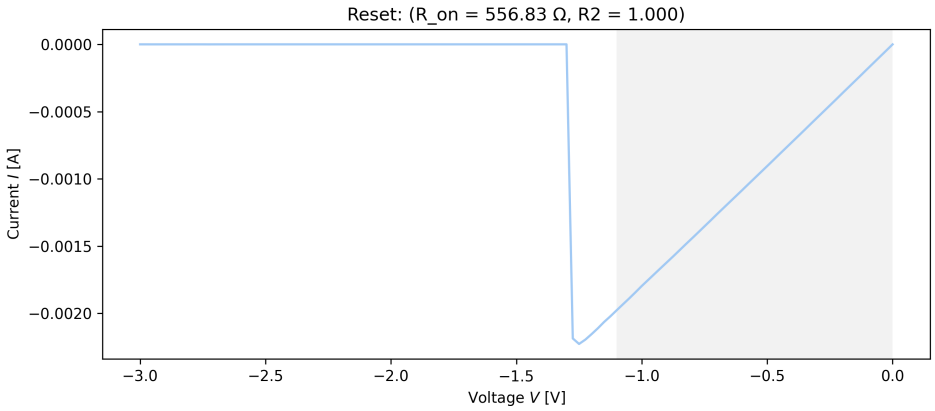
Set at 2.8 V



reset

- **Time:** 05:07:29PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.733 V/s*
- **Cycle:** 7
- **Resistance:** 556.83 Ω
- **Linear Fit R2:** 1.000

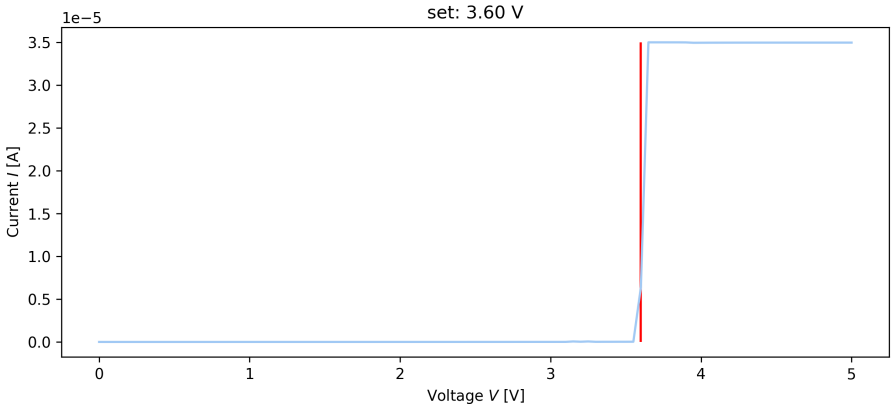
Reset



set

- **Time:** 05:11:44PM
- **Icc:** 35.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 8
- **Set Voltage:** 3.60 V

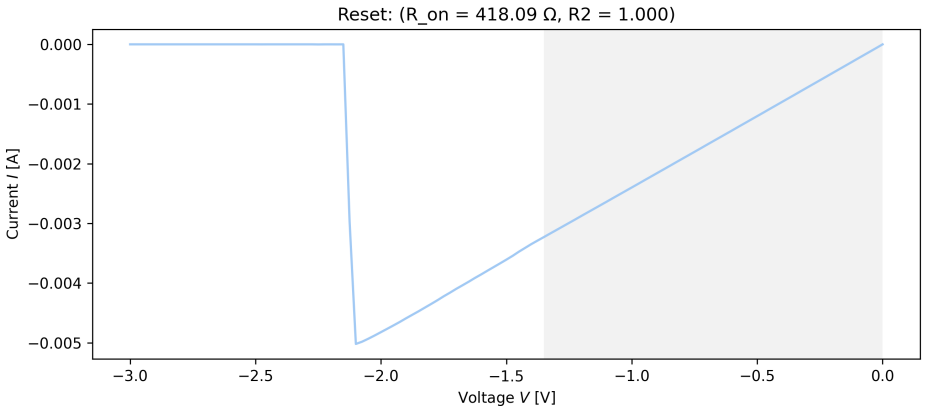
Set at 3.15 V



reset

- **Time:** 05:12:42PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s*
- **Cycle:** 8
- **Resistance:** 418.09 Ω
- **Linear Fit R2:** 1.000

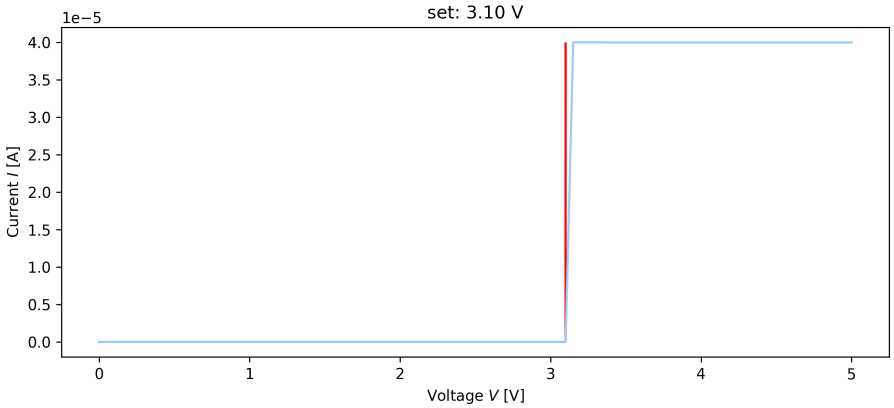
Reset with lower resistance, this one makes sense



set

- **Time:** 05:15:32PM
- **Icc:** 40.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 9
- **Set Voltage:** 3.10 V

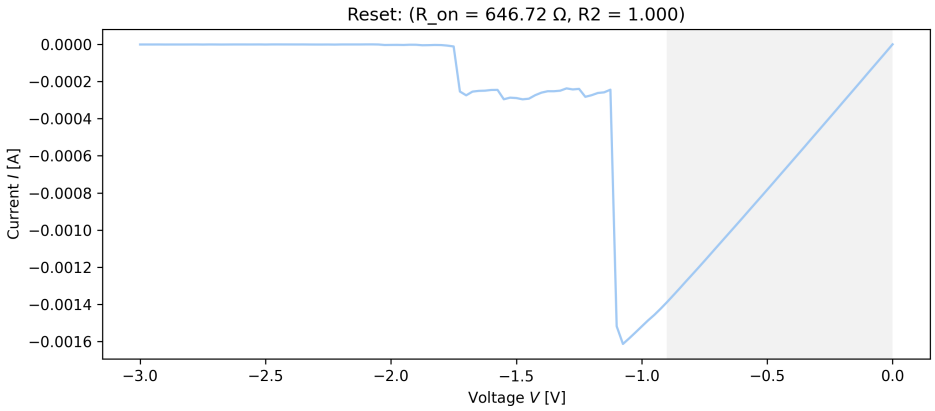
Set at 3.15 V



reset

- **Time:** 05:16:15PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.703 V/s*
- **Cycle:** 9
- **Resistance:** 646.72 Ω
- **Linear Fit R2:** 1.000

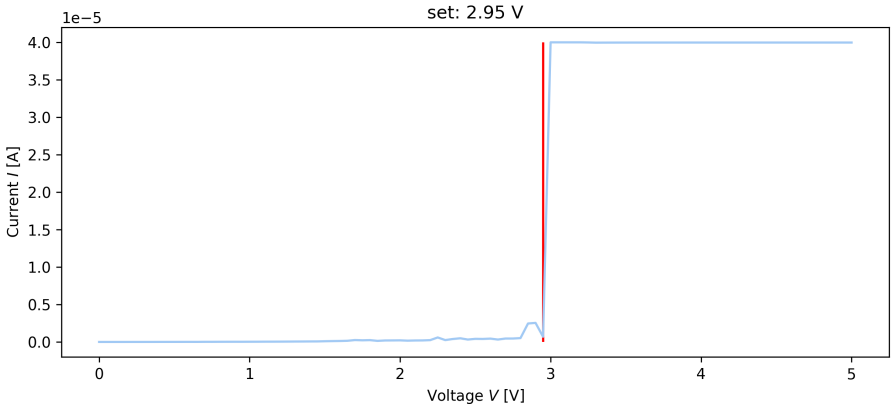
Has a higher resistance despite being set at 40 uA.. doesn't make sense.



set

- **Time:** 05:17:05PM
- **Icc:** 40.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 10
- **Set Voltage:** 2.95 V

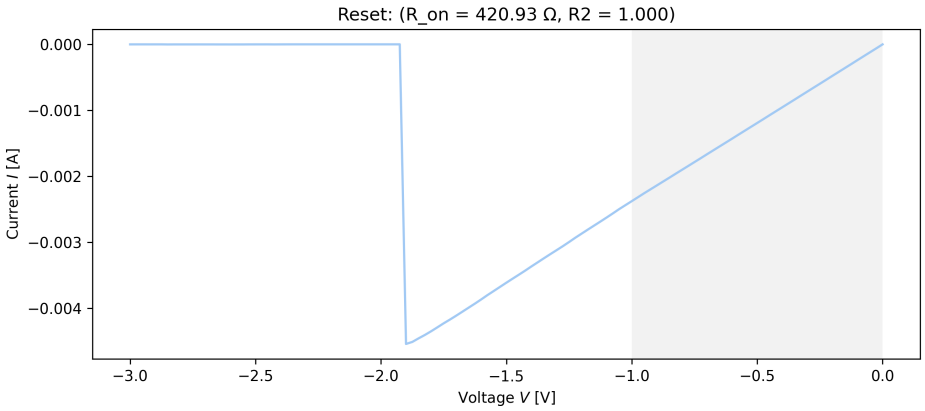
Set at 3.0 V



reset

- **Time:** 05:18:43PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s*
- **Cycle:** 10
- **Resistance:** 420.93 Ω
- **Linear Fit R2:** 1.000

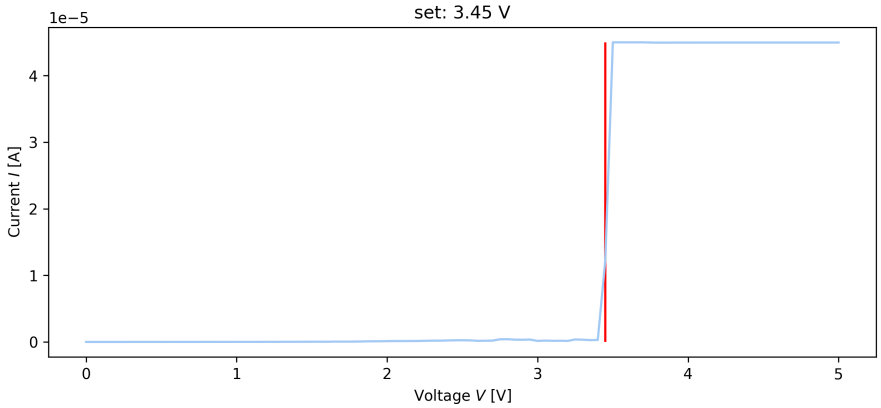
Has a higher resistance despite being set at 40 uA.. doesn't make sense.



set

- **Time:** 05:21:12PM
- **Icc:** 45.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 11
- **Set Voltage:** 3.45 V

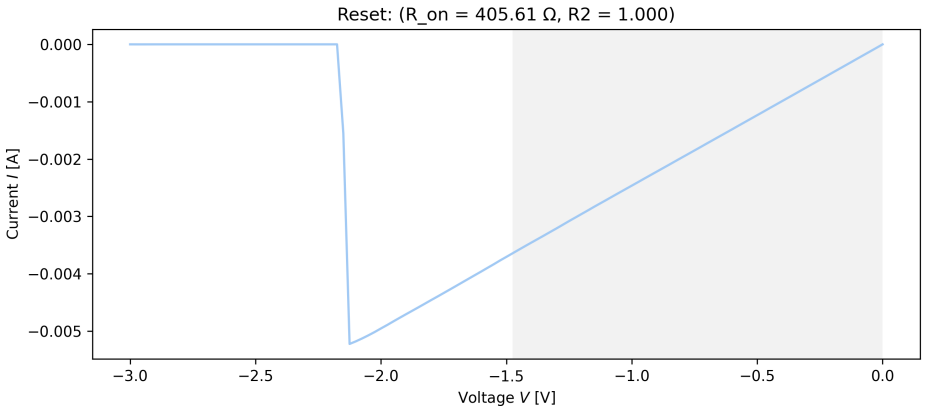
Set at 3.5 V



reset

- **Time:** 05:21:48PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.788 V/s*
- **Cycle:** 11
- **Resistance:** 405.61 Ω
- **Linear Fit R2:** 1.000

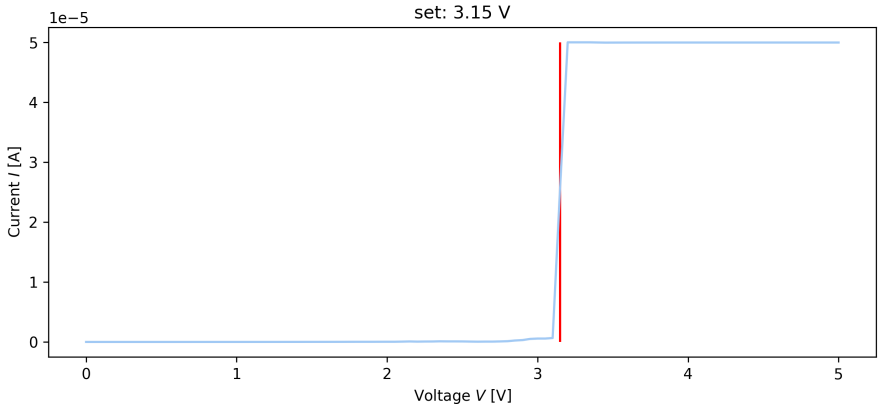
This and every other reset starting from 184 has the same resistance. e.g. 176, 178, 180, 182, 184, 185



set

- **Time:** 05:24:35PM
- **Icc:** 50.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 12
- **Set Voltage:** 3.15 V

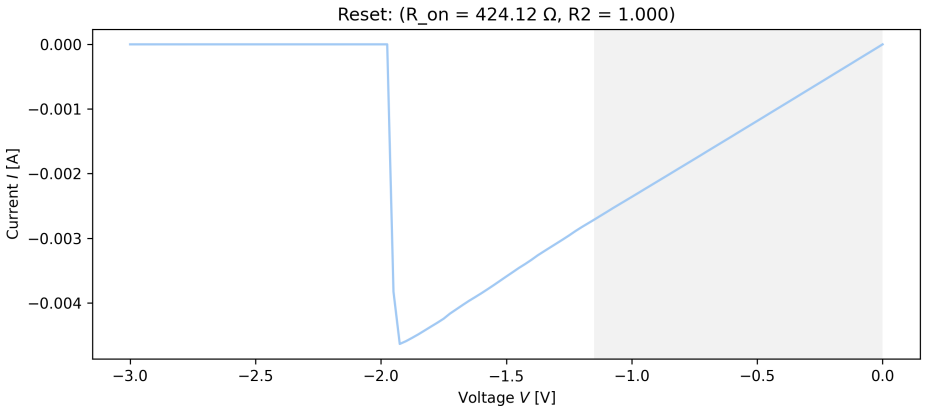
Set at 3.2 V



reset

- **Time:** 05:25:23PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s*
- **Cycle:** 12
- **Resistance:** 424.12 Ω
- **Linear Fit R2:** 1.000

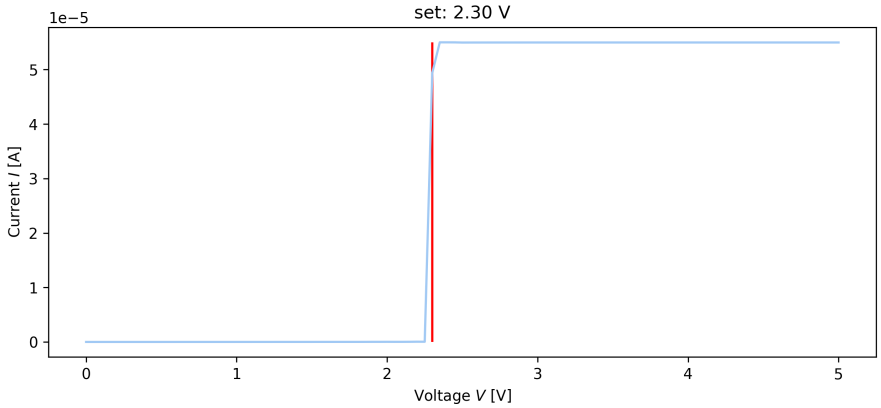
Has same resistance: 176, 178, 180, 182, 184, 185, 186



set

- **Time:** 05:26:37PM
- **Icc:** 55.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 13
- **Set Voltage:** 2.30 V

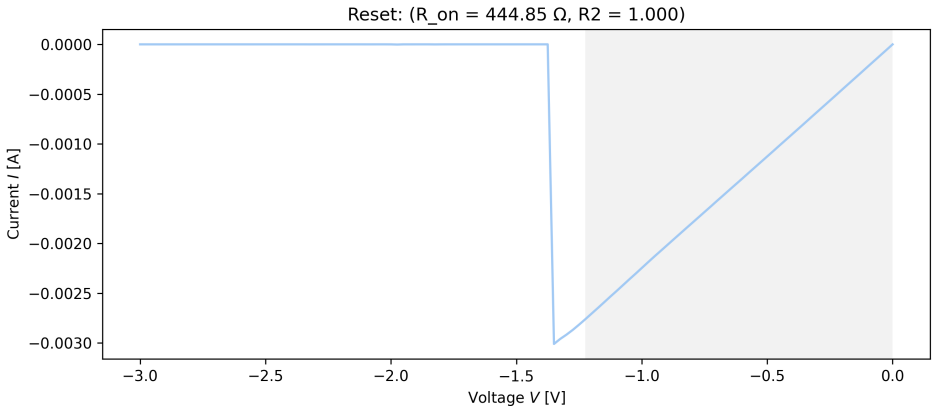
Set at 2.35 V



reset

- **Time:** 05:27:49PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.765 V/s*
- **Cycle:** 13
- **Resistance:** 444.85 Ω
- **Linear Fit R2:** 1.000

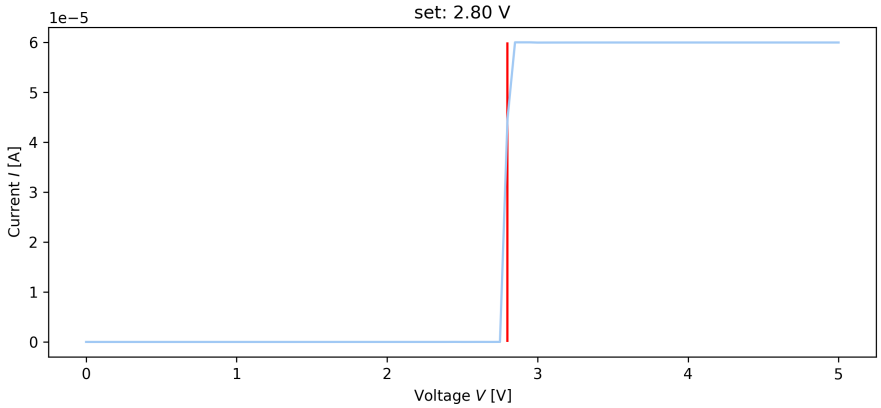
Has same resistance: 176, 178, 180, 182, 184, 185, 186, 187



set

- **Time:** 05:30:32PM
- **Icc:** 60.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 14
- **Set Voltage:** 2.80 V

Set at 2.85 V



reset

- **Time:** 05:31:28PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.723 V/s*
- **Cycle:** 14
- **Resistance:** 573.20 Ω
- **Linear Fit R2:** 1.000

No longer has same resistance