

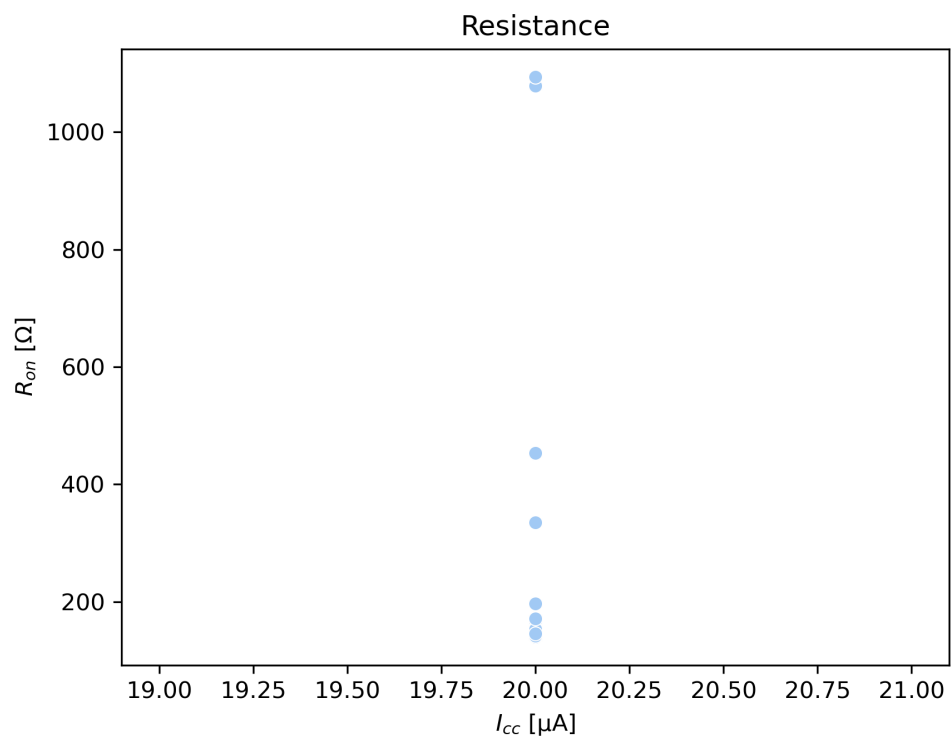
## (wafer2,0,7,-1,-1,0,0) Characteristics

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- **Cell Size:** 10um
- **Times Accessed:** 22
- **Last Measurement:** 2022/March/25 at 04:54:22PM

### Summary

Cycle #	Set Icc ( $\mu$ A)	Set Voltage (V)	R_on ( $\Omega$ )	R2
1	20.0	4.00	140.34	1.000
2	20.0	4.00	139.76	1.000
3	20.0	4.00	142.04	1.000
4	20.0	4.00	166.28	1.000
5	20.0	4.50	196.58	1.000
6	20.0	3.55	42818.03	0.941
7	20.0	3.55	154.77	1.000
8	20.0	3.55	151.75	1.000
9	20.0	3.55	153.16	1.000
10	20.0	3.55	145.59	1.000
11	20.0	3.55	170.77	1.000
12	20.0	3.55	335.33	1.000
13	20.0	3.55	1078.94	0.997
14	20.0	3.55	453.65	1.000
15	20.0	3.55	1093.83	0.998

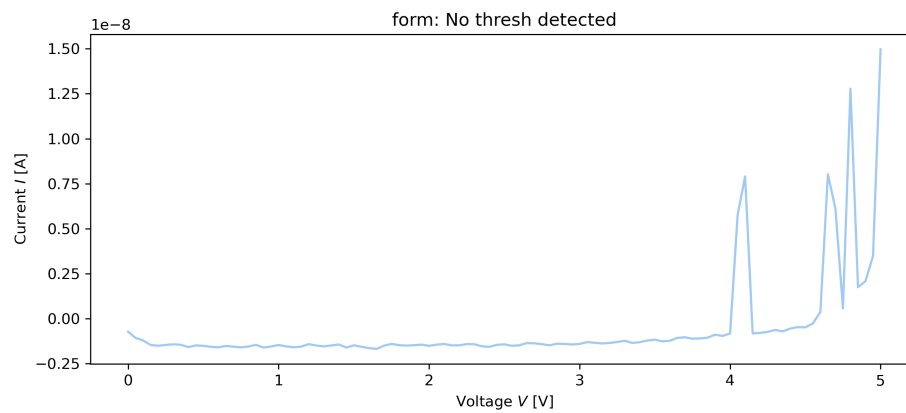


## form

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- **Time:** 04:29:49PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 1
- **Error:** Set failed

Did not form

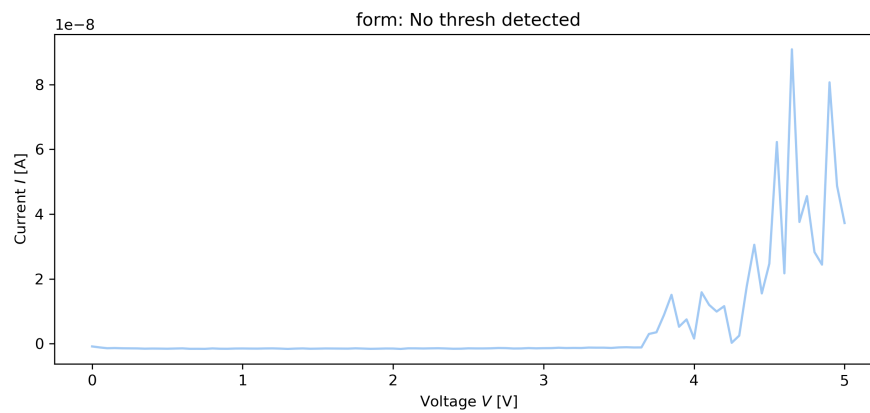


## form

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- **Time:** 04:31:56PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 1
- **Error:** Set failed

Did not form again

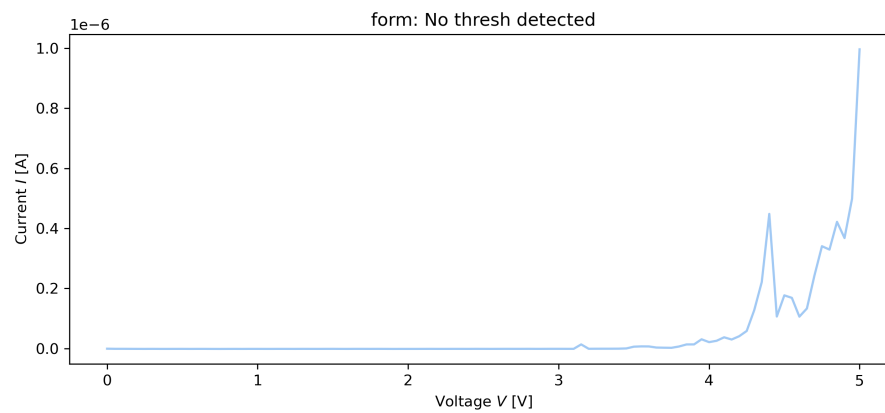


## form

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- **Time:** 04:32:25PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 1
- **Error:** Set failed

Did not form

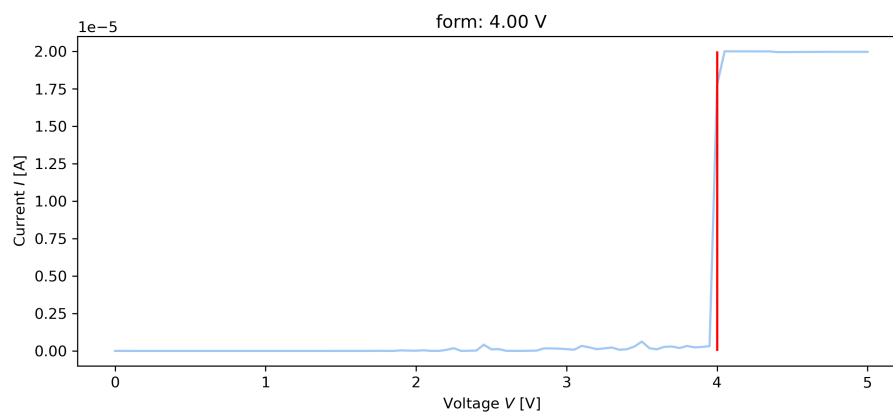


## form

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- **Time:** 04:34:45PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 1
- **Set Voltage:** 4.00 V

Formed at 4.05V

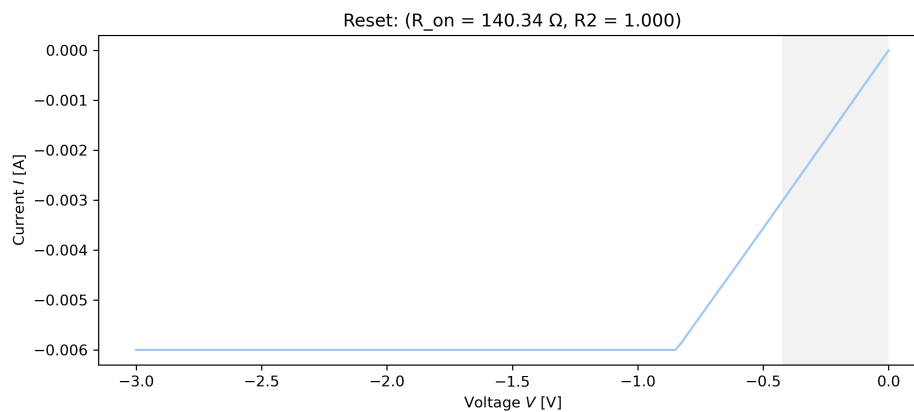


## reset

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- **Time:** 04:36:57PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V  $\rightarrow$  -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.896 V/s\*
- **Cycle:** 1
- **Resistance:** 140.34  $\Omega$
- **Linear Fit R2:** 1.000

Did not reset

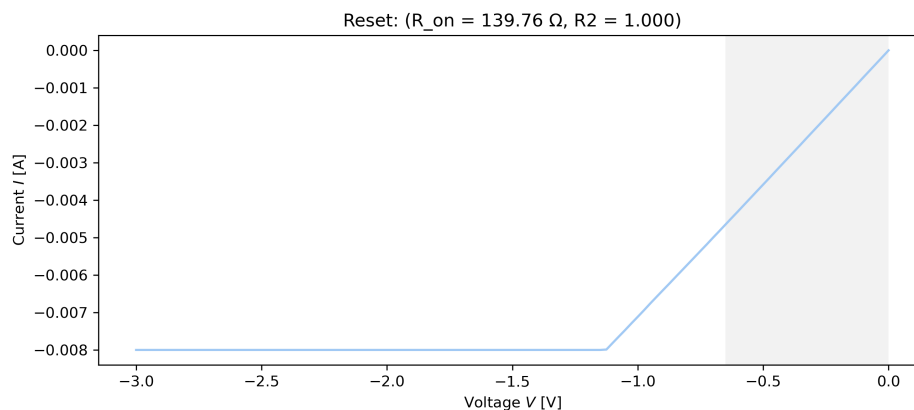


## reset

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- **Time:** 04:37:43PM
- **I<sub>cc</sub>:** 8.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.897 V/s\*
- **Cycle:** 2
- **Resistance:** 139.76 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Did not reset



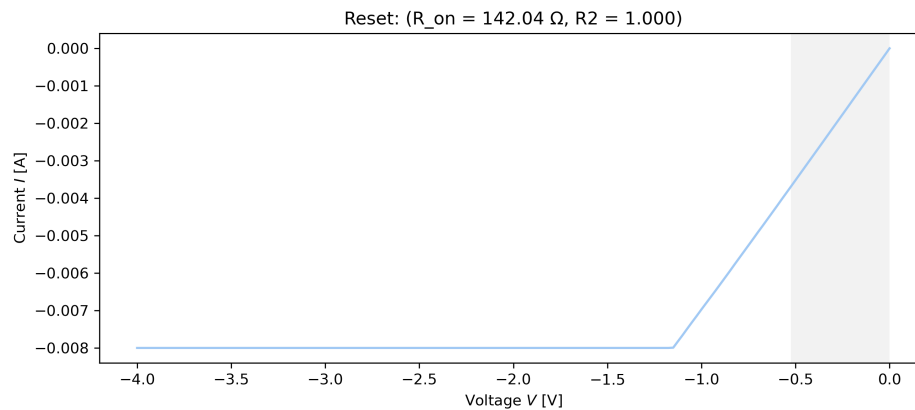


## reset

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- **Time:** 04:38:20PM
- **I<sub>cc</sub>:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.897 V/s\*
- **Cycle:** 3
- **Resistance:** 142.04 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Did not reset

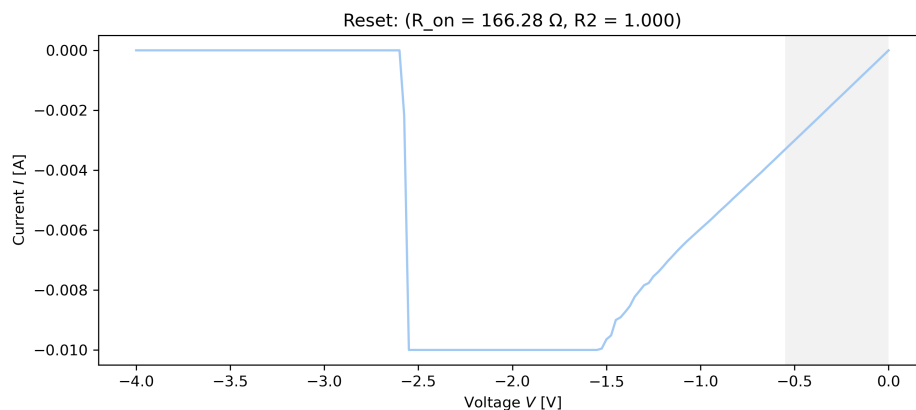


## reset

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- **Time:** 04:39:09PM
- **I<sub>cc</sub>:** 10.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.881 V/s\*
- **Cycle:** 4
- **Resistance:** 166.28 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Reset

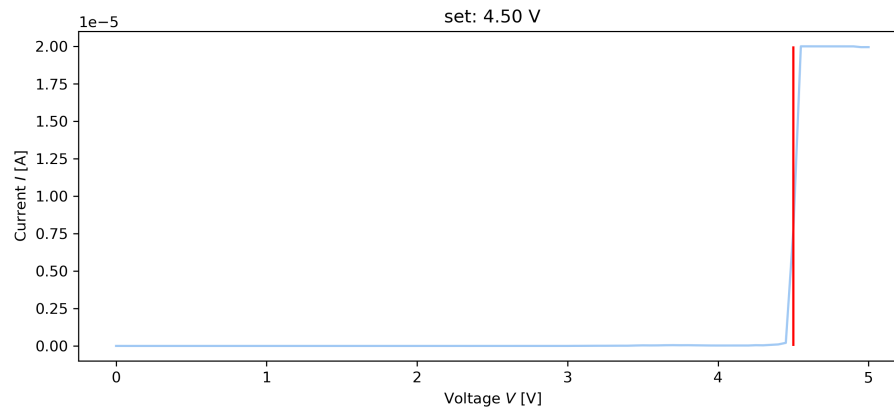


## set

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- **Time:** 04:40:13PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 5
- **Set Voltage:** 4.50 V

Set at a higher voltage, 4.55V

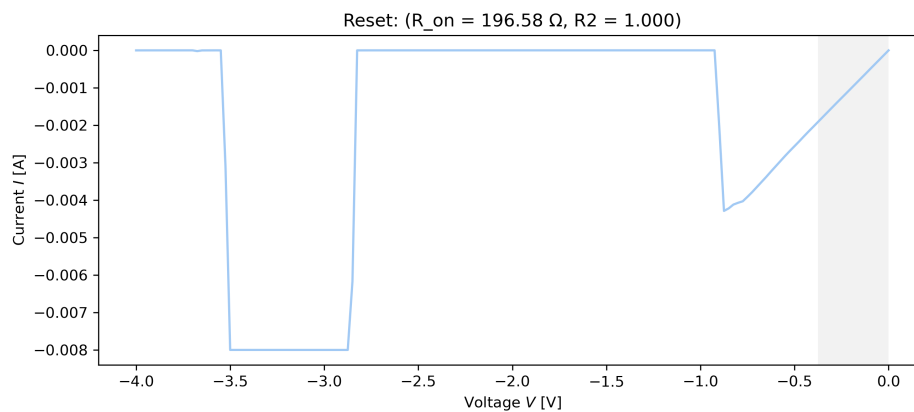


## reset

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- **Time:** 04:41:36PM
- **I<sub>cc</sub>:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.824 V/s\*
- **Cycle:** 5
- **Resistance:** 196.58 Ω
- **Linear Fit R2:** 1.000

Reset

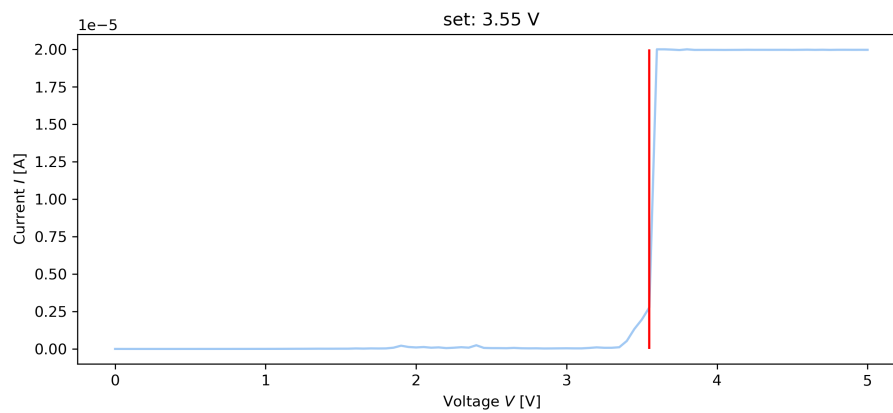


## set

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- **Time:** 04:44:22PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 6
- **Set Voltage:** 3.55 V

Set at a lower voltage, 3.6V

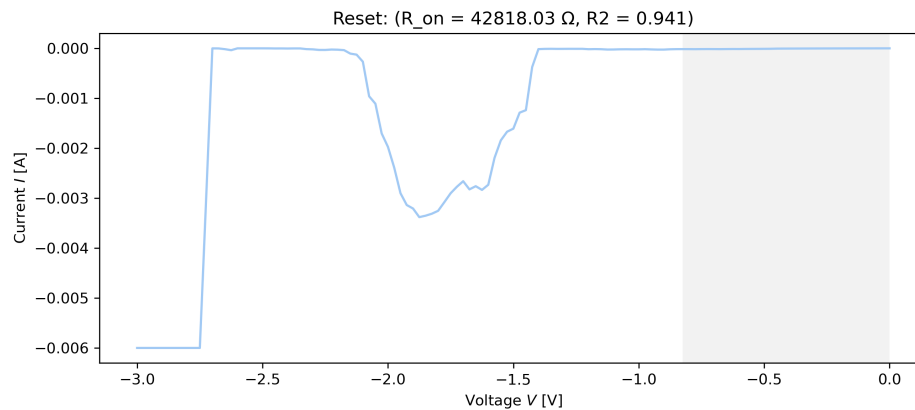


## reset

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- **Time:** 04:47:14PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.548 V/s\*
- **Cycle:** 6
- **Resistance:** 42818.03 Ω
- **Linear Fit R<sup>2</sup>:** 0.941

Did not reset, no R-on slope

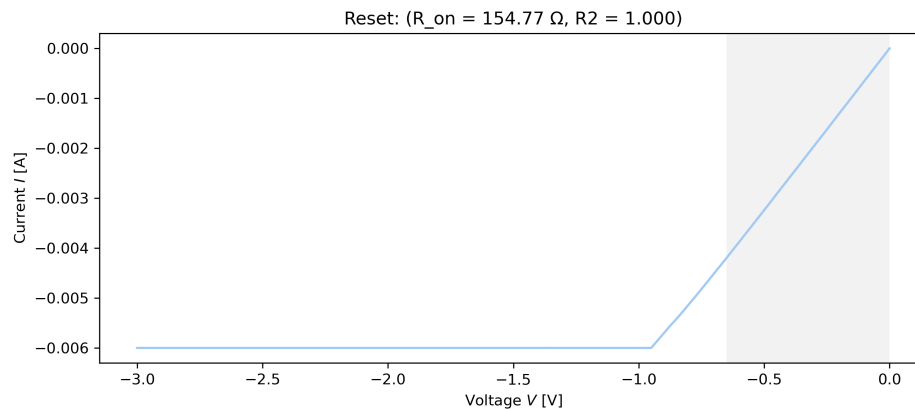


## reset

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- **Time:** 04:48:23PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.896 V/s\*
- **Cycle:** 7
- **Resistance:** 154.77 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Did not reset but had a slope

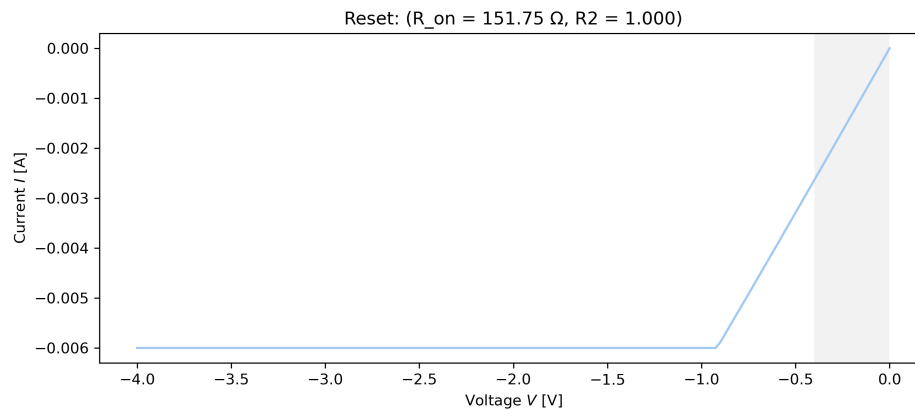


## reset

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- **Time:** 04:49:09PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V  $\rightarrow$  -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.897 V/s\*
- **Cycle:** 8
- **Resistance:** 151.75  $\Omega$
- **Linear Fit R2:** 1.000

Did not reset again



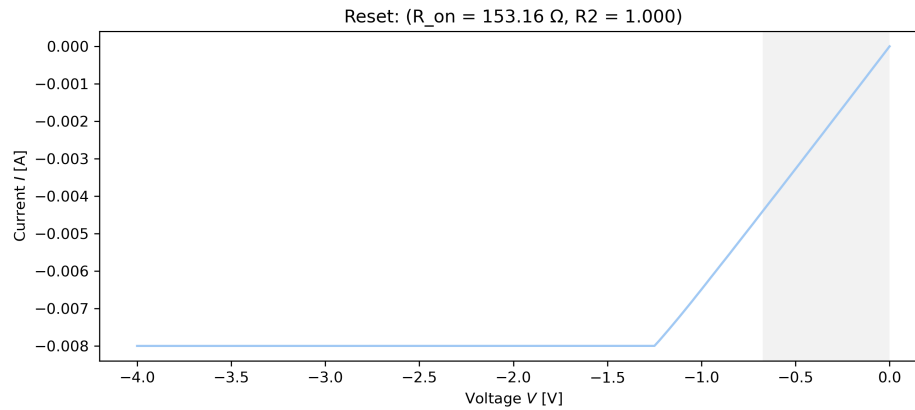


## reset

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- **Time:** 04:49:39PM
- **Icc:** 8.0mA
- **Voltage Range:** 0V  $\rightarrow$  -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.897 V/s\*
- **Cycle:** 9
- **Resistance:** 153.16  $\Omega$
- **Linear Fit R2:** 1.000

Oh my God - Amrita

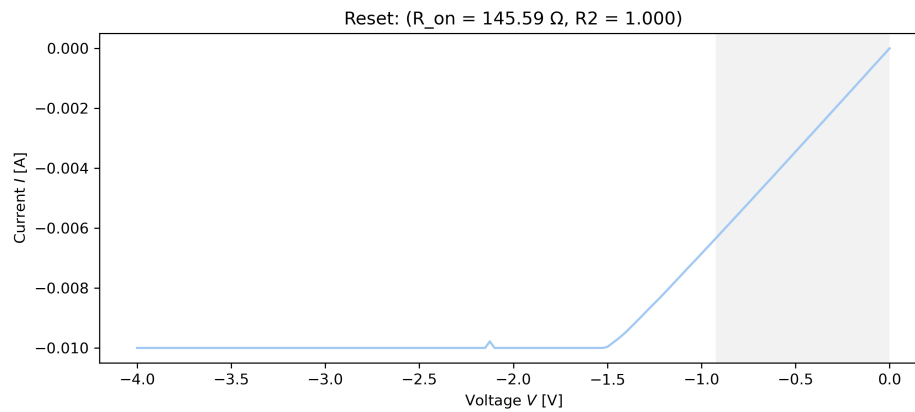


## reset

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- **Time:** 04:50:35PM
- **Icc:** 10.0mA
- **Voltage Range:** 0V  $\rightarrow$  -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.896 V/s\*
- **Cycle:** 10
- **Resistance:** 145.59  $\Omega$
- **Linear Fit R2:** 1.000

Oh my God - Nick

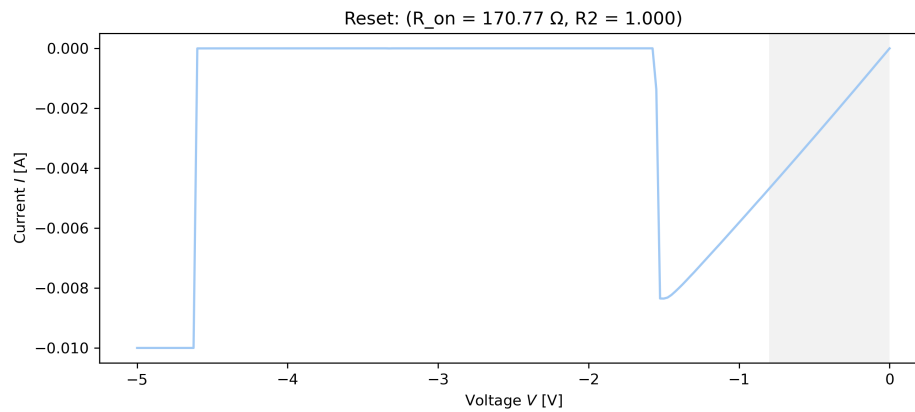


## reset

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- **Time:** 04:51:26PM
- **I<sub>cc</sub>:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.882 V/s\*
- **Cycle:** 11
- **Resistance:** 170.77 Ω
- **Linear Fit R2:** 1.000

Reset really quickly, then set again?

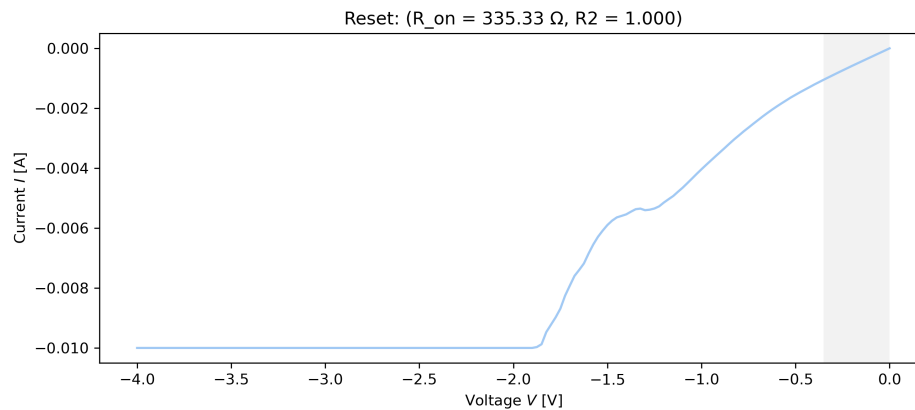


## reset

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- **Time:** 04:52:16PM
- **I<sub>cc</sub>:** 10.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.812 V/s\*
- **Cycle:** 12
- **Resistance:** 335.33 Ω
- **Linear Fit R2:** 1.000

Did not reset, non constant slope

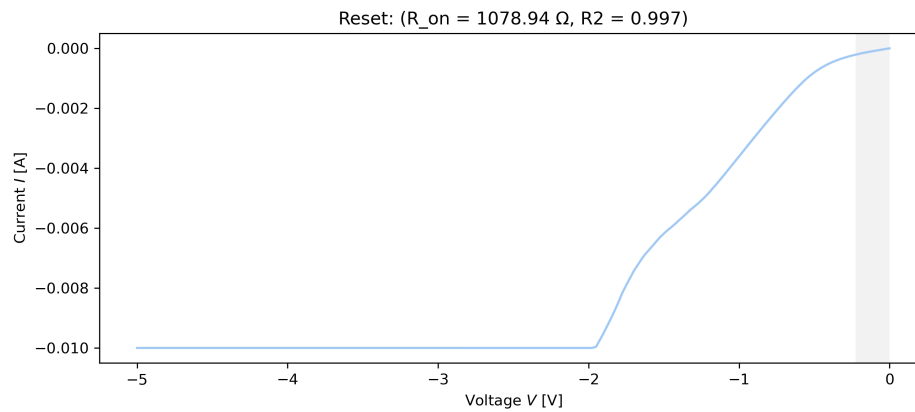


## reset

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- **Time:** 04:52:38PM
- **I<sub>cc</sub>:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.712 V/s\*
- **Cycle:** 13
- **Resistance:** 1078.94  $\Omega$
- **Linear Fit R<sup>2</sup>:** 0.997

Did not reset again, non constant slope

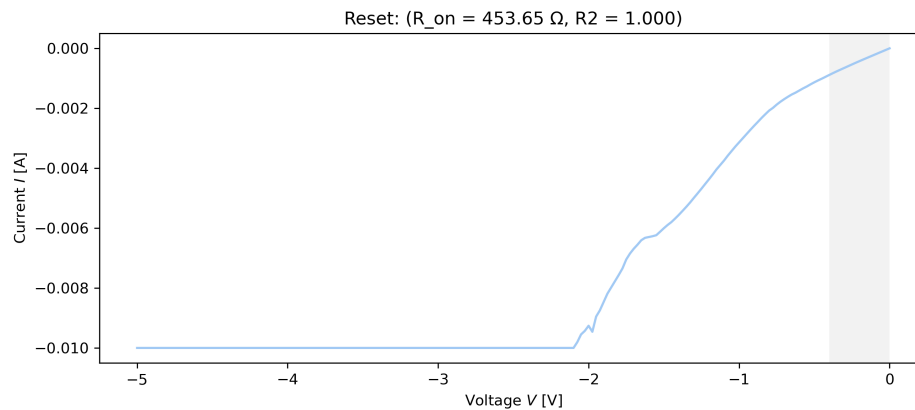


## reset

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- **Time:** 04:53:17PM
- **I<sub>cc</sub>:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.765 V/s\*
- **Cycle:** 14
- **Resistance:** 453.65  $\Omega$
- **Linear Fit R<sup>2</sup>:** 1.000

No reset, still has weird slope



## reset

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- **Time:** 04:54:22PM
- **I<sub>cc</sub>:** 11.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.553 V/s\*
- **Cycle:** 15
- **Resistance:** 1093.83 Ω
- **Linear Fit R<sup>2</sup>:** 0.998

No reset, the weird slope is consistent though

