

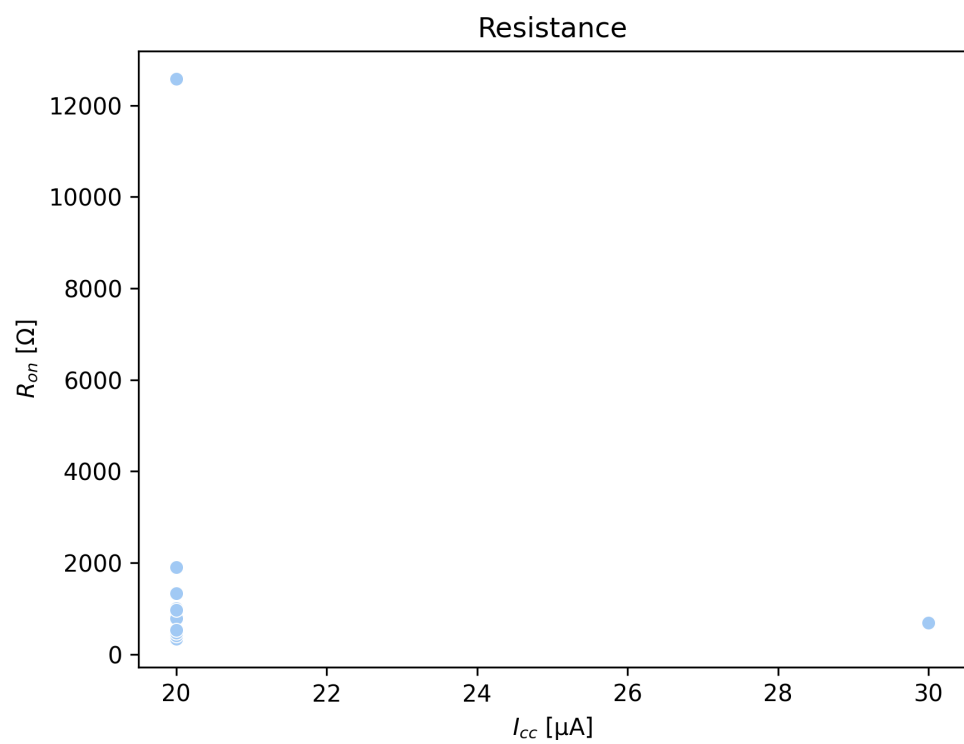
## (wafer2,2,0,-1,-1,0,3) Characteristics

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- **Cell Size:** 15um
- **Times Accessed:** 29
- **Last Measurement:** 2022/March/17 at 05:59:07PM

### Summary

Cycle #	Set Icc ( $\mu$ A)	Set Voltage (V)	R_on ( $\Omega$ )	R2
1	20.0	4.65	427.62	1.000
2	20.0	4.65	418.61	1.000
3	20.0	1.00	1905.88	1.000
4	20.0	1.60	483.77	1.000
5	20.0	1.90	12575.93	0.997
6	20.0	3.30	332.48	1.000
7	20.0	2.80	409.22	1.000
8	20.0	1.50	1327.93	1.000
9	20.0	1.45	998.16	1.000
10	20.0	2.45	788.61	1.000
11	20.0	1.80	473.82	1.000
12	20.0	1.60	523.61	1.000
13	20.0	1.60	961.12	1.000
14	30.0	1.20	689.63	1.000

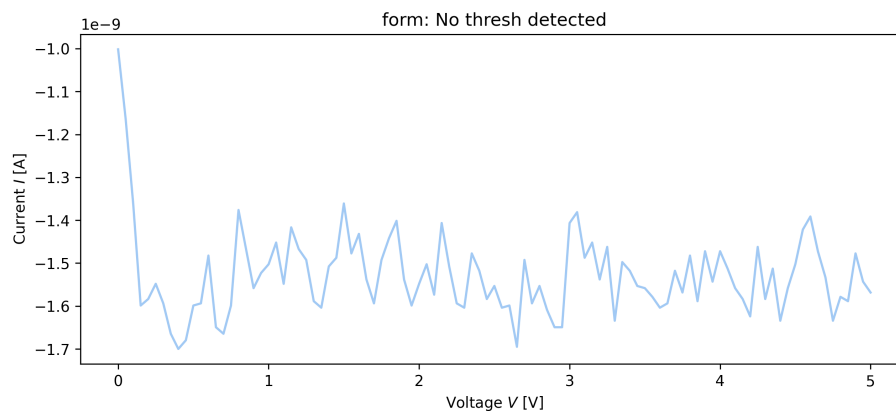


## form

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- **Time:** 05:35:02PM
- **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

No connection

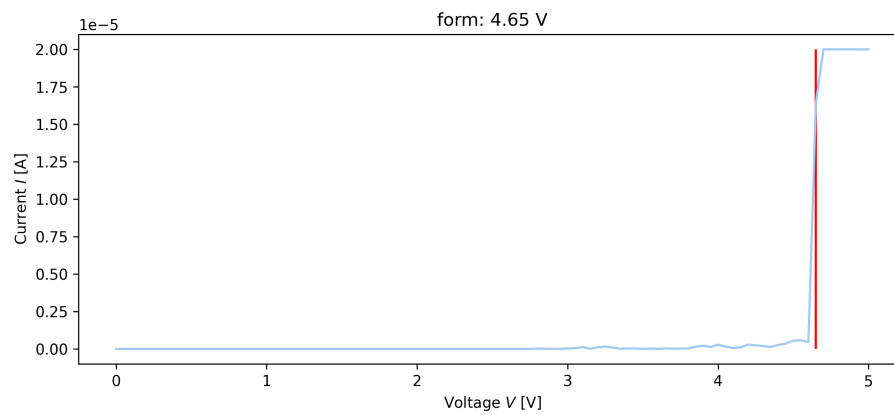


## form

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- **Time:** 05:35:33PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 1
- **Set Voltage:** 4.65 V

Set at 4.7 V

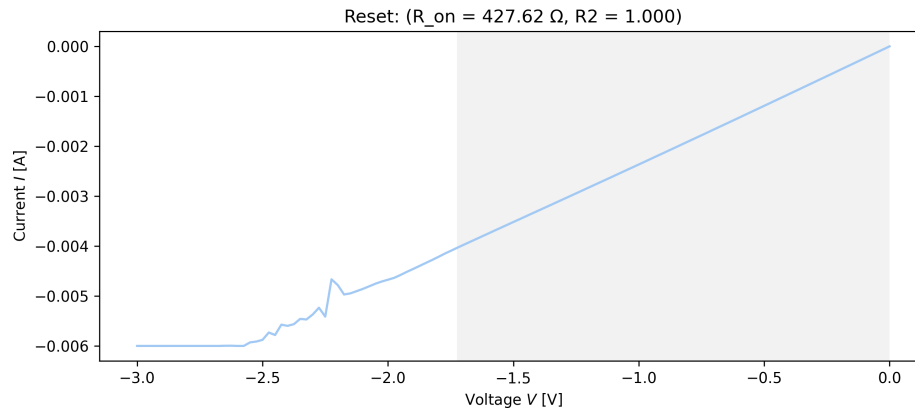


## reset

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- **Time:** 05:36:15PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s\*
- **Cycle:** 1
- **Resistance:** 427.62 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Did not reset

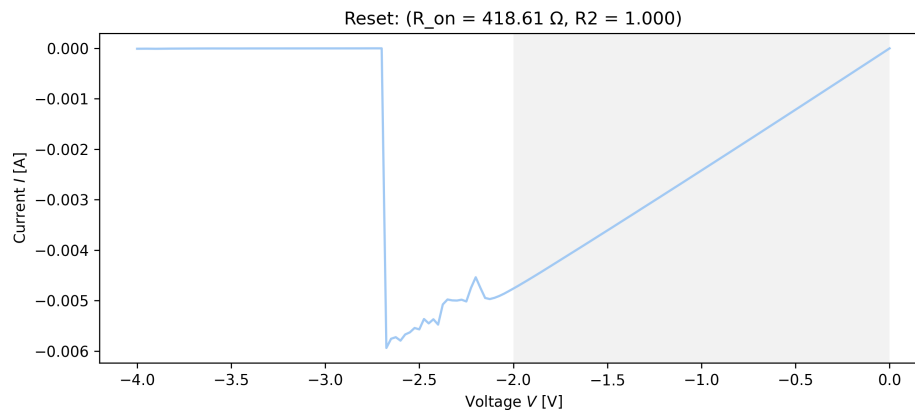


## reset

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- **Time:** 05:37:05PM
- **I<sub>cc</sub>:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.776 V/s\*
- **Cycle:** 2
- **Resistance:** 418.61  $\Omega$
- **Linear Fit R<sup>2</sup>:** 1.000

Successfully reset

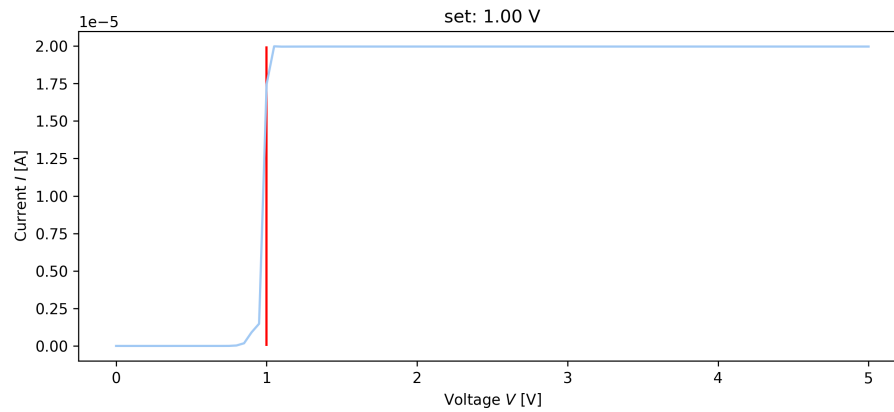


## set

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- **Time:** 05:37:39PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.072 V/s\*
- **Cycle:** 3
- **Set Voltage:** 1.00 V

Set at 1.05 V

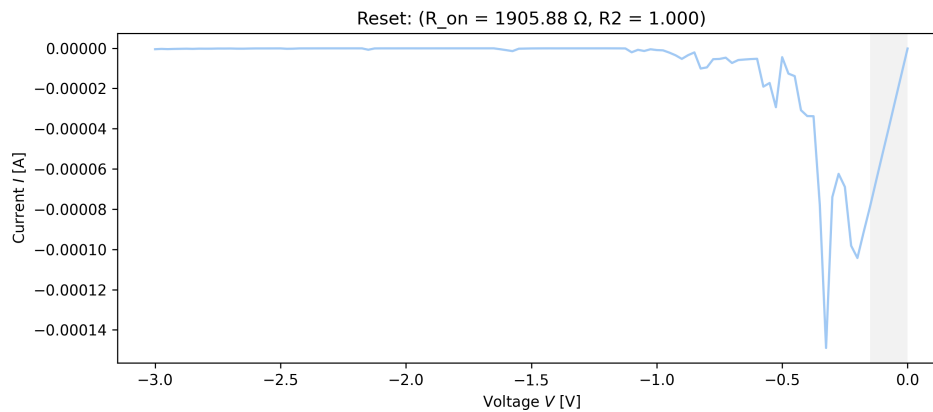


## reset

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- **Time:** 05:38:40PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V  $\rightarrow$  -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.550 V/s\*
- **Cycle:** 3
- **Resistance:** 1905.88  $\Omega$
- **Linear Fit R2:** 1.000

Reset but not properly



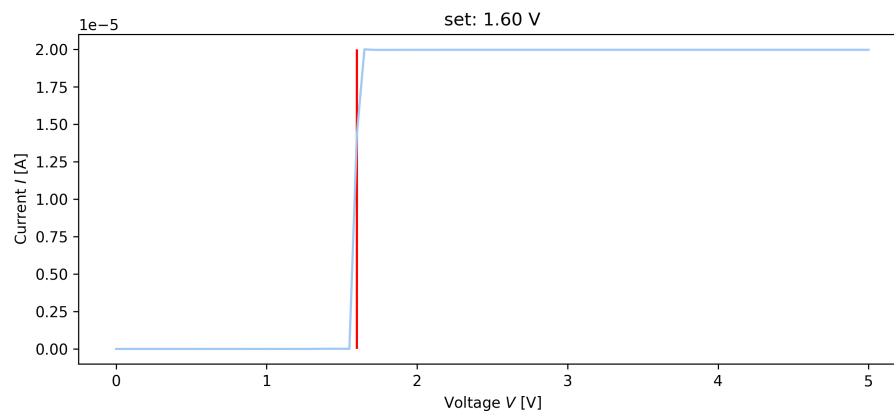


## set

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- **Time:** 05:39:13PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 4
- **Set Voltage:** 1.60 V

Set at 1.65 V

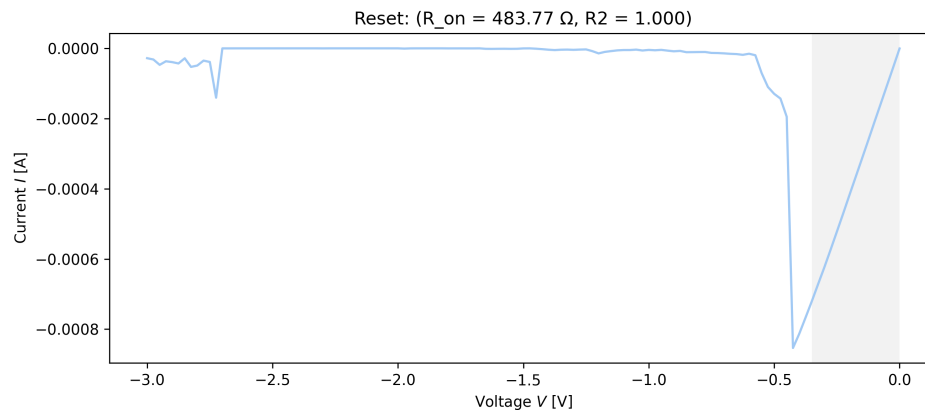


## reset

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- **Time:** 05:39:44PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V  $\rightarrow$  -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.567 V/s\*
- **Cycle:** 4
- **Resistance:** 483.77  $\Omega$
- **Linear Fit R2:** 1.000

Reset successfully

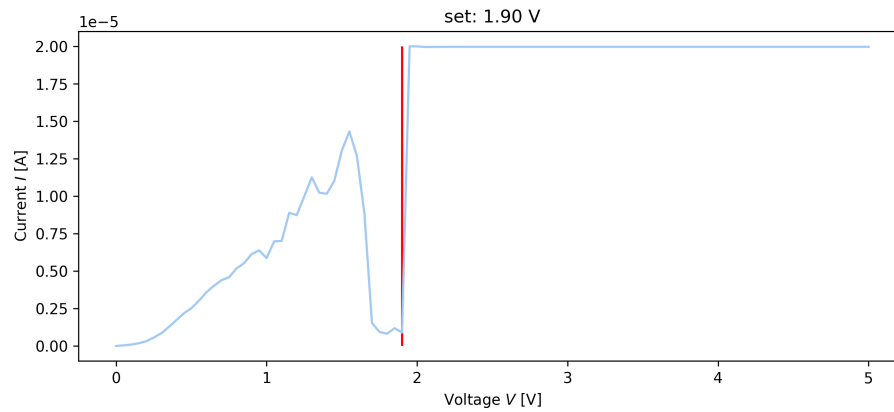


## set

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- **Time:** 05:40:41PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.087 V/s\*
- **Cycle:** 5
- **Set Voltage:** 1.90 V

Set at 1.95V. Weird before

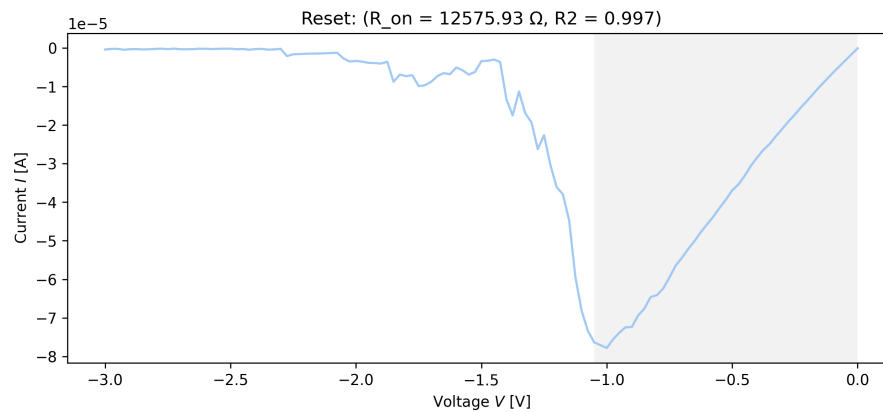


## reset

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- **Time:** 05:41:21PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V  $\rightarrow$  -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.548 V/s\*
- **Cycle:** 5
- **Resistance:** 12575.93  $\Omega$
- **Linear Fit R2:** 0.997

Kinda reset

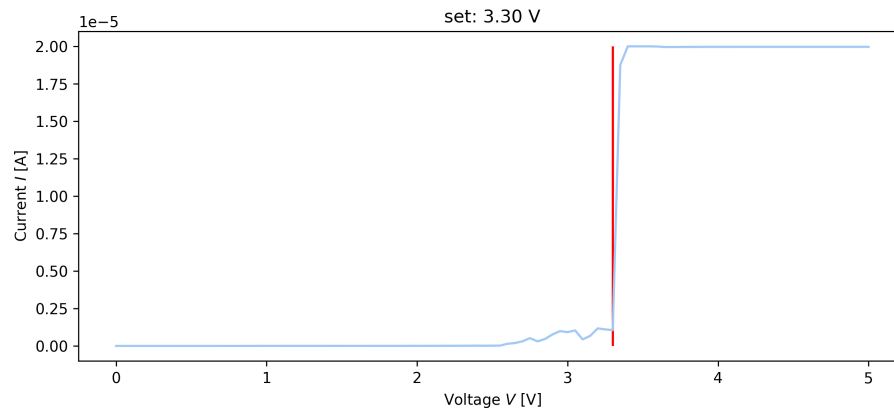


## set

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- **Time:** 05:41:59PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 6
- **Set Voltage:** 3.30 V

Set at 3.4 V

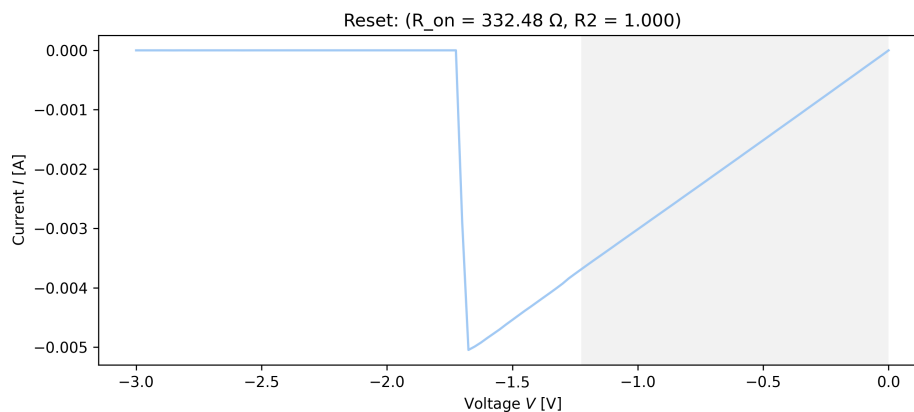


## reset

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- **Time:** 05:43:46PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.813 V/s\*
- **Cycle:** 6
- **Resistance:** 332.48 Ω
- **Linear Fit R2:** 1.000

Clean reset

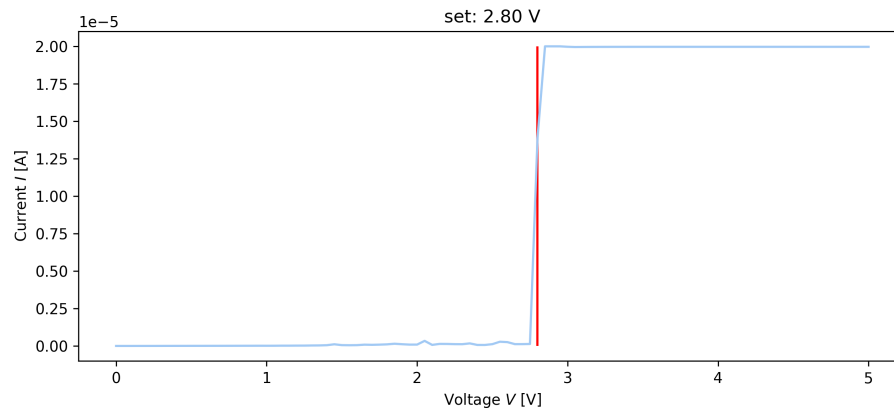


## set

---

- **Time:** 05:46:17PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 7
- **Set Voltage:** 2.80 V

Set at 2.85 V

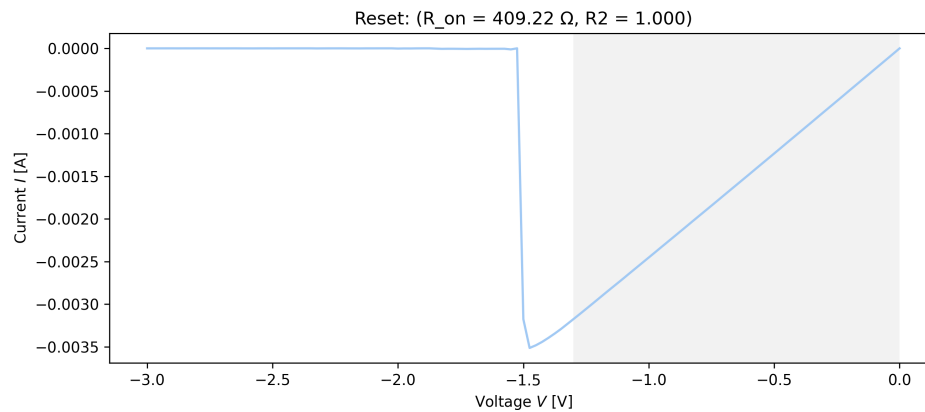


## reset

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- **Time:** 05:46:57PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.788 V/s\*
- **Cycle:** 7
- **Resistance:** 409.22 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Clean reset but more resistance



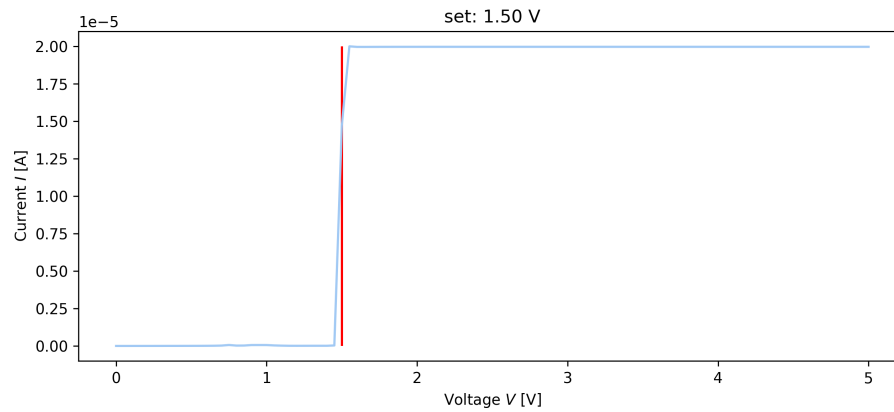


## set

---

- **Time:** 05:47:44PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 8
- **Set Voltage:** 1.50 V

Set at 1.55

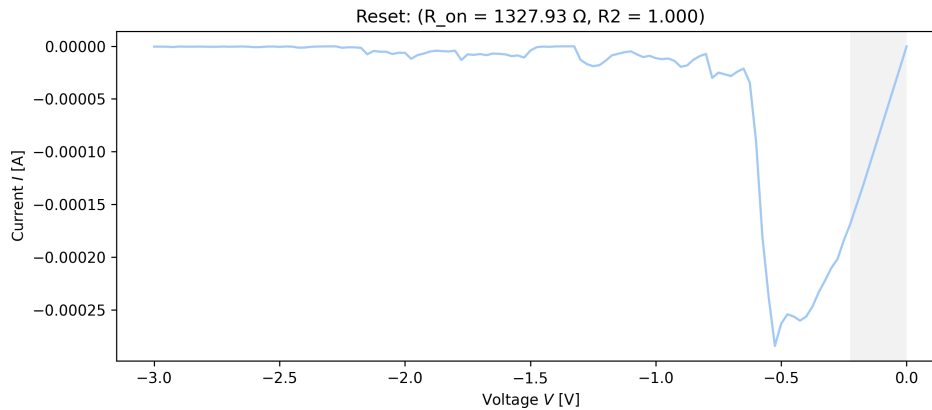


## reset

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- **Time:** 05:48:46PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.554 V/s\*
- **Cycle:** 8
- **Resistance:** 1327.93 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Awful reset

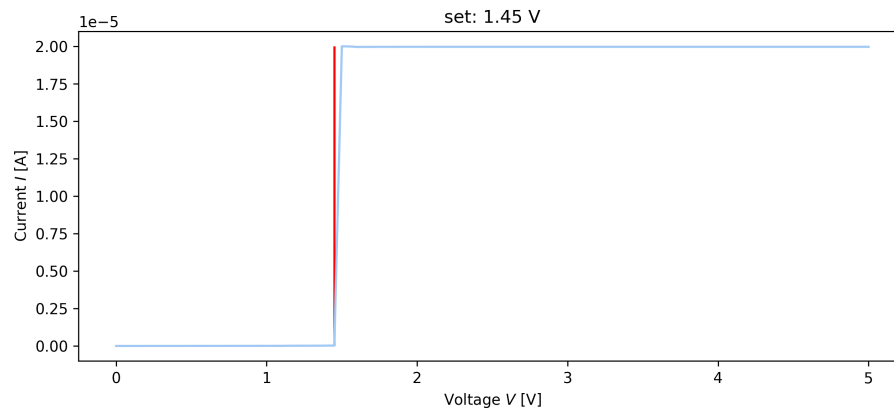


## set

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- **Time:** 05:50:20PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 9
- **Set Voltage:** 1.45 V

Set at 1.5 V

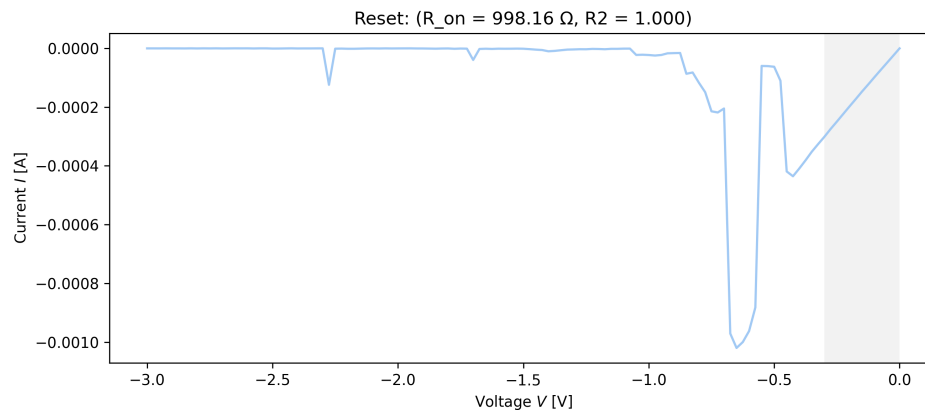


## reset

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- **Time:** 05:51:04PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.588 V/s\*
- **Cycle:** 9
- **Resistance:** 998.16 Ω
- **Linear Fit R2:** 1.000

Weird

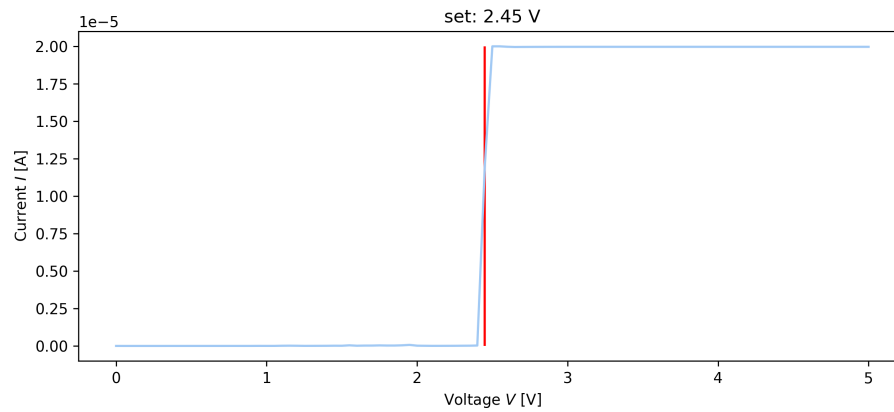


## set

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- **Time:** 05:51:30PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 10
- **Set Voltage:** 2.45 V

Set at 2.5 V

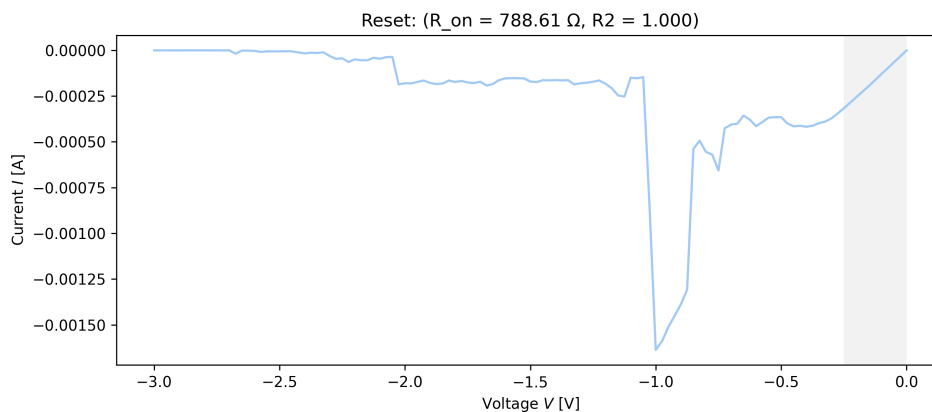


## reset

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- **Time:** 05:54:37PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.592 V/s\*
- **Cycle:** 10
- **Resistance:** 788.61  $\Omega$
- **Linear Fit R<sup>2</sup>:** 1.000

Weird

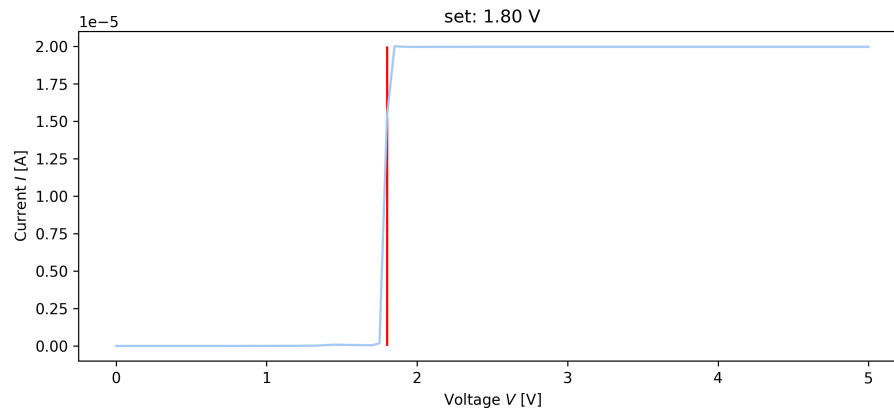


## set

---

- **Time:** 05:55:04PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 11
- **Set Voltage:** 1.80 V

Set at 1.85 V

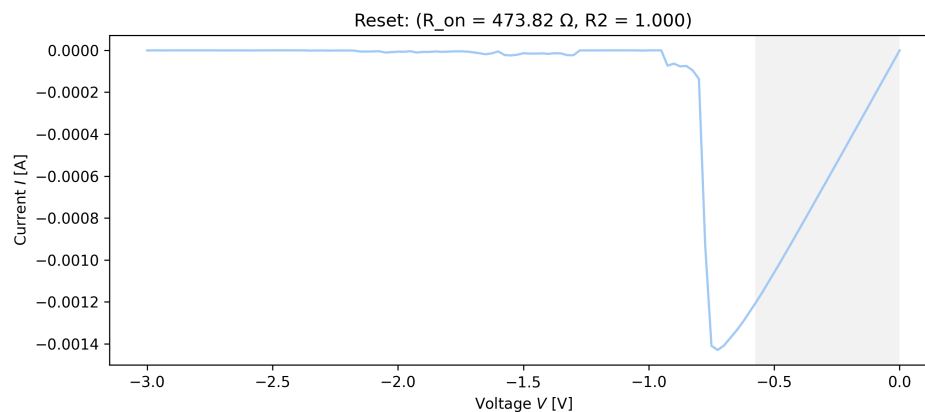


## reset

---

- **Time:** 05:55:34PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.683 V/s\*
- **Cycle:** 11
- **Resistance:** 473.82 Ω
- **Linear Fit R2:** 1.000

Better reset



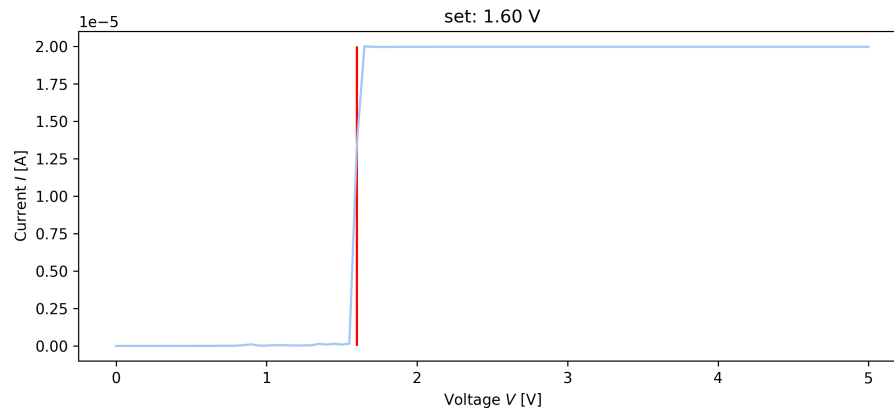


## set

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- **Time:** 05:56:12PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 12
- **Set Voltage:** 1.60 V

Set at 1.65 V

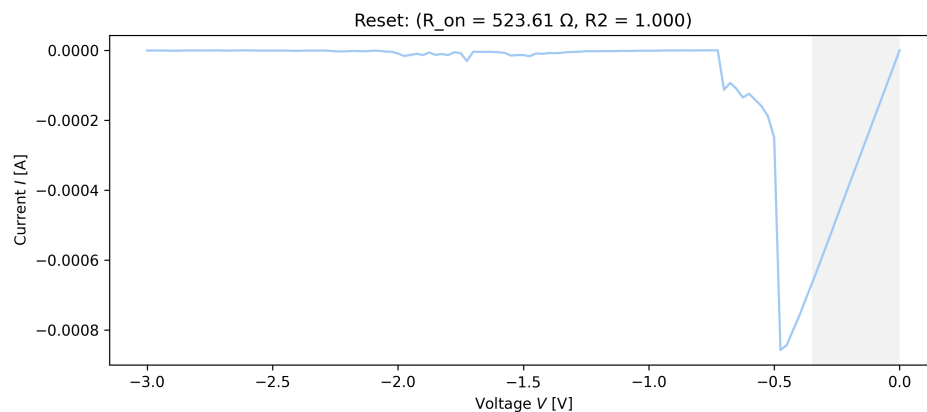


## reset

---

- **Time:** 05:56:51PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V  $\rightarrow$  -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.575 V/s\*
- **Cycle:** 12
- **Resistance:** 523.61  $\Omega$
- **Linear Fit R2:** 1.000

Did reset

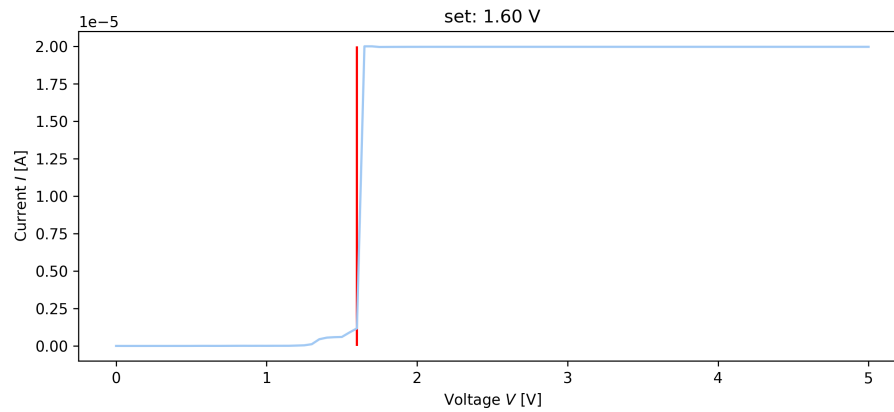


## set

---

- **Time:** 05:57:30PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 13
- **Set Voltage:** 1.60 V

Set at 1.65 V

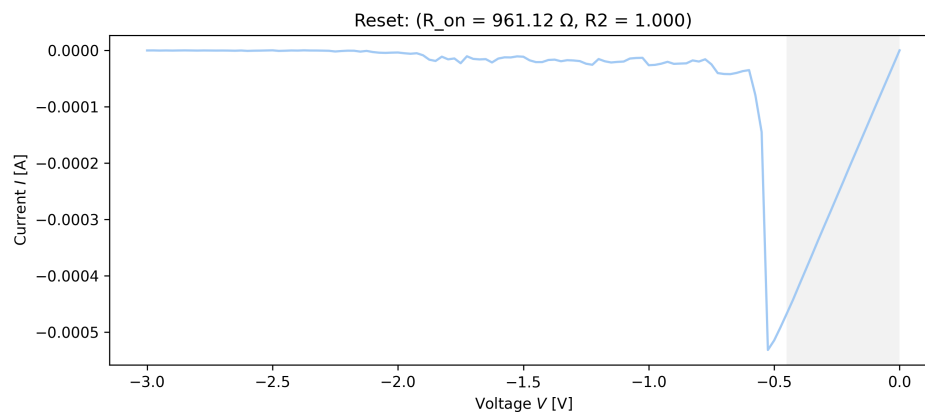


## reset

---

- **Time:** 05:58:08PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.554 V/s\*
- **Cycle:** 13
- **Resistance:** 961.12 Ω
- **Linear Fit R2:** 1.000

Worse reset

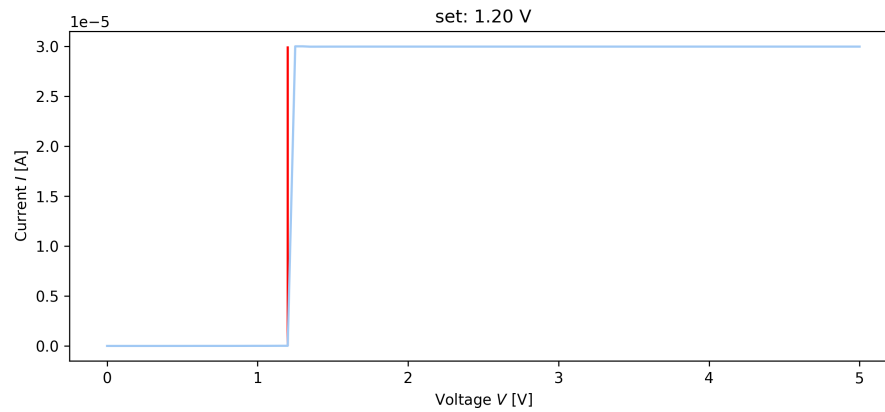


## set

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- **Time:** 05:58:38PM
- **Icc:** 30.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 14
- **Set Voltage:** 1.20 V

Set at 1.25 V



## reset

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- **Time:** 05:59:07PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.602 V/s\*
- **Cycle:** 14
- **Resistance:** 689.63 Ω
- **Linear Fit R2:** 1.000

Bad reset

