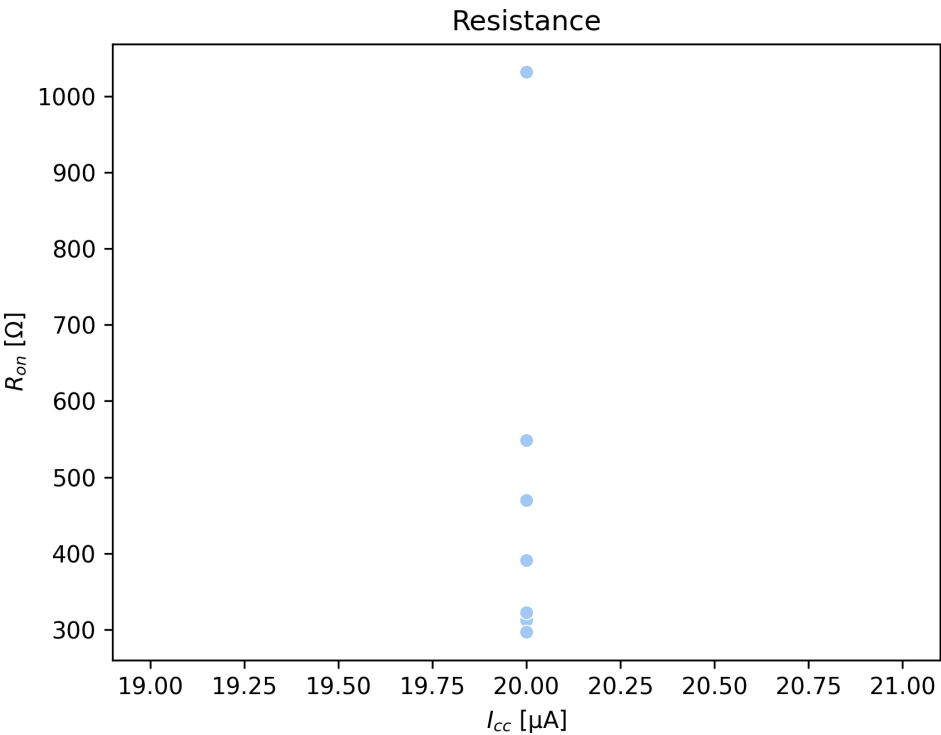


# (wafer2,2,0,-1,-1,0,2) Characteristics

- Cell Size: 15um
- Times Accessed: 14
- Last Measurement: 2022/March/23 at 03:57:19PM

## Summary

Cycle #	Set Icc (μA)	Set Voltage (V)	R_on (Ω)	R2
1	20.0	1.50	548.23	1.000
2	20.0	1.60	469.53	1.000
3	20.0	1.60	298.30	1.000
4	20.0	1.60	1031.86	1.000
5	20.0	1.60	312.89	1.000
6	20.0	1.65	166608.91	0.699
7	20.0	1.65	390.81	1.000
8	20.0	1.65	312.25	1.000
9	20.0	1.65	322.49	1.000
10	20.0	1.65	296.82	1.000

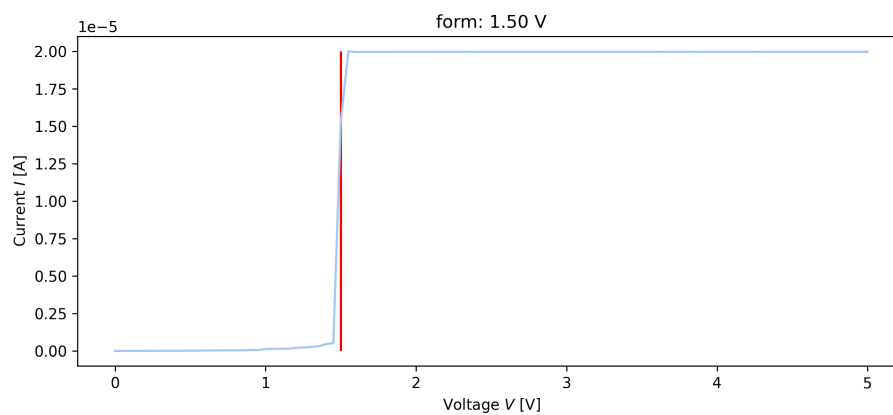


## form

---

- **Time:** 03:41:00PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 1
- **Set Voltage:** 1.50 V

Probe A on copper, B on platinum. Formed at 1.5V, very low.

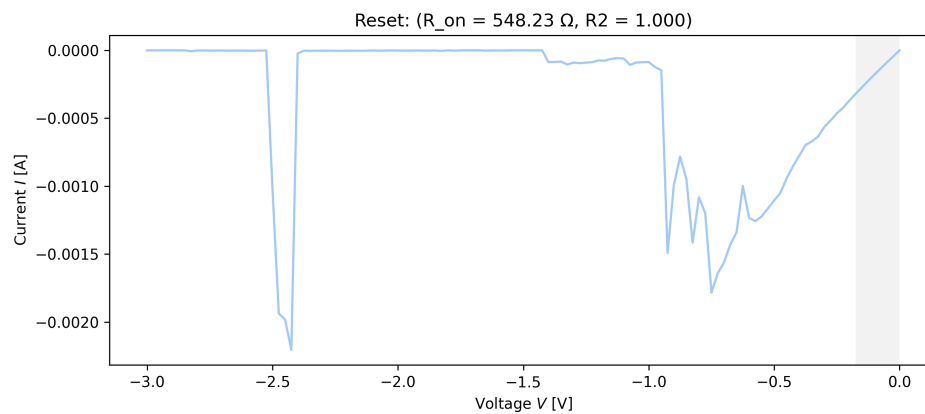


## reset

---

- **Time:** 03:44:22PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.713 V/s\*
- **Cycle:** 1
- **Resistance:** 548.23 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

Reset confirmed but janky.

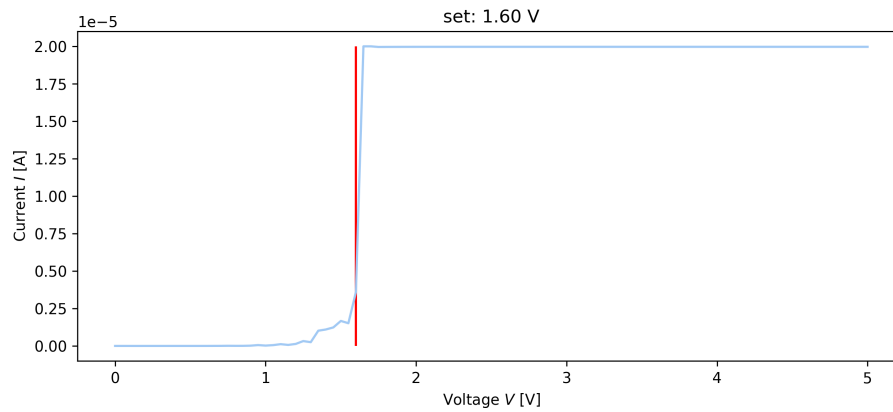


## set

---

- **Time:** 03:45:18PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 2
- **Set Voltage:** 1.60 V

Set at 1.65v again, pretty much same

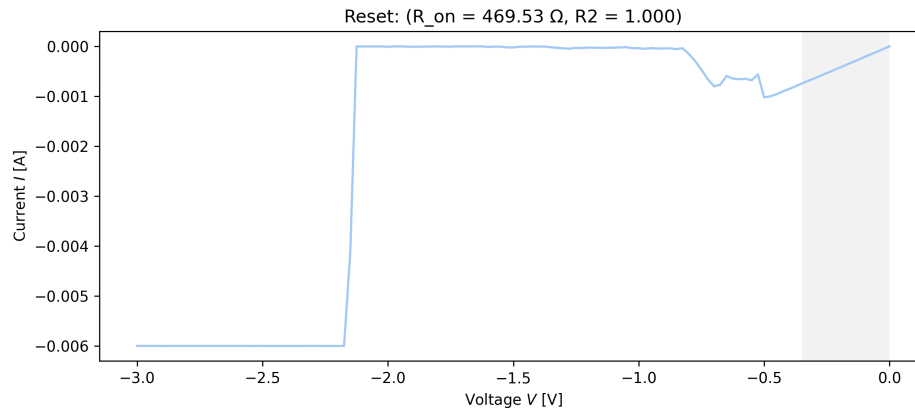


## reset

---

- **Time:** 03:45:57PM
- **I<sub>cc</sub>:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.596 V/s\*
- **Cycle:** 2
- **Resistance:** 469.53 Ω
- **Linear Fit R2:** 1.000

reset fail.

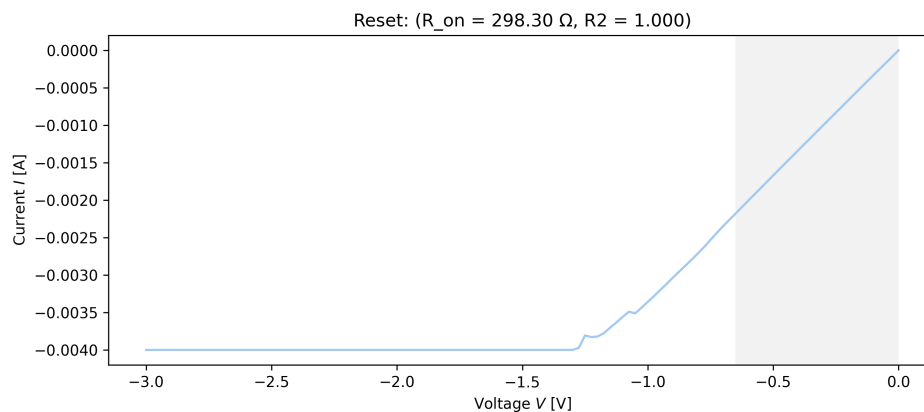


## reset

---

- **Time:** 03:47:07PM
- **I<sub>cc</sub>:** 4.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s\*
- **Cycle:** 3
- **Resistance:** 298.30 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

reset fail.

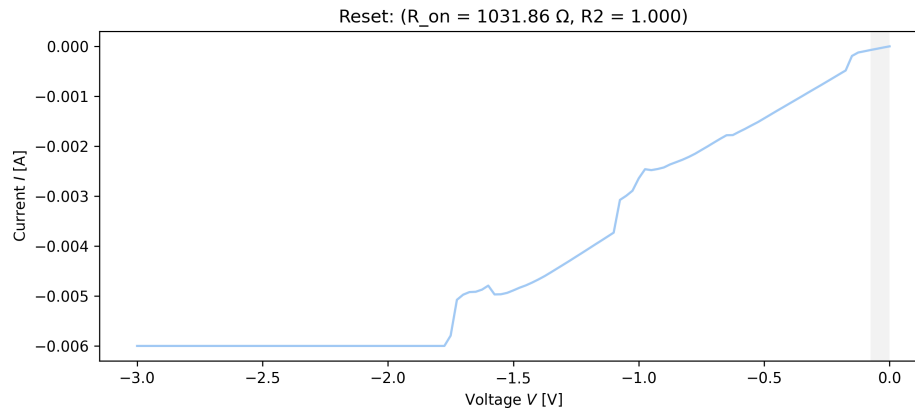


## reset

---

- **Time:** 03:47:52PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V  $\rightarrow$  -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.799 V/s\*
- **Cycle:** 4
- **Resistance:** 1031.86  $\Omega$
- **Linear Fit R2:** 1.000

reset fail.

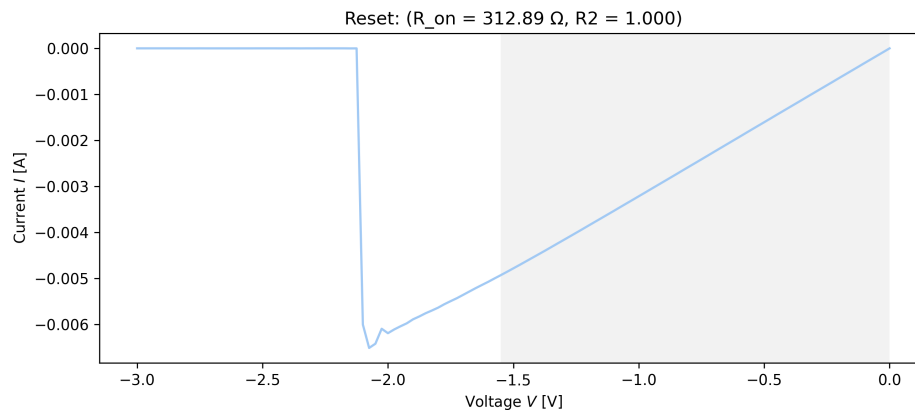


## reset

---

- **Time:** 03:48:37PM
- **I<sub>cc</sub>:** 8.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s\*
- **Cycle:** 5
- **Resistance:** 312.89 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

reset success, but took about 6.5mA. Looking good.



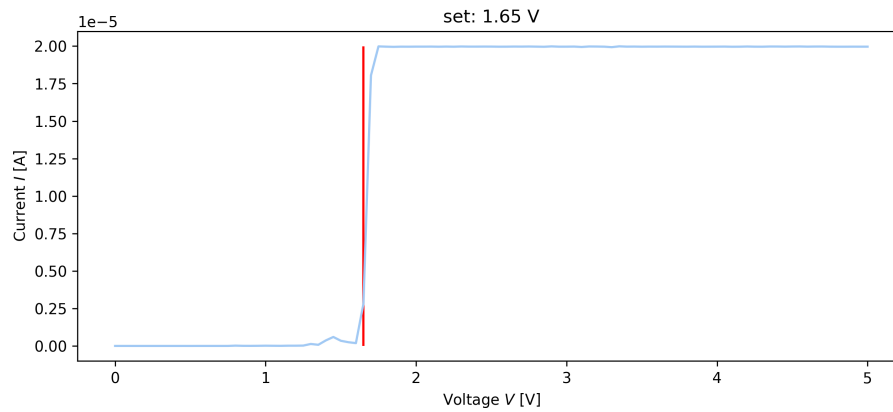


## set

---

- **Time:** 03:50:24PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V  $\rightarrow$  5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s\*
- **Cycle:** 6
- **Set Voltage:** 1.65 V

Setting around same voltage, 1.75v.

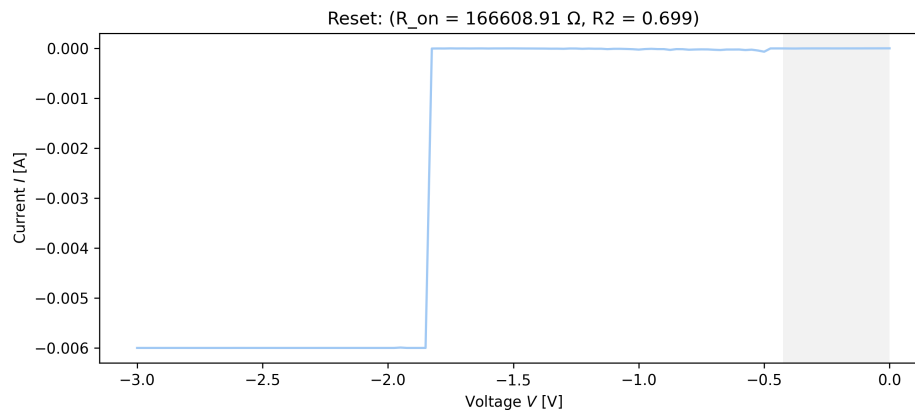


## reset

---

- **Time:** 03:53:42PM
- **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:** 166608.91 Ω
- **Linear Fit R2:** 0.699

reset fail.

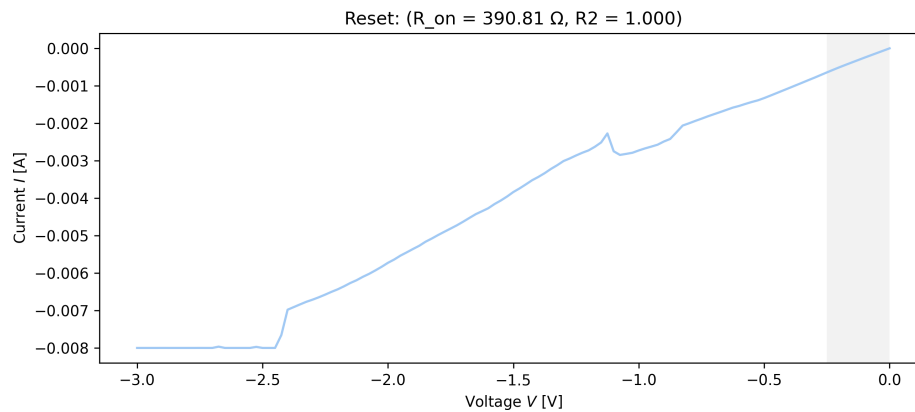


## reset

---

- **Time:** 03:54:40PM
- **I<sub>cc</sub>:** 8.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.788 V/s\*
- **Cycle:** 7
- **Resistance:** 390.81 Ω
- **Linear Fit R2:** 1.000

reset fail.

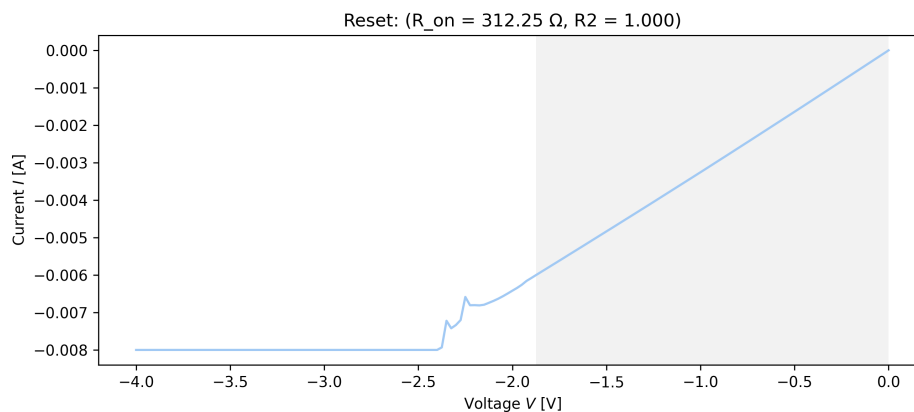


## reset

---

- **Time:** 03:55:29PM
- **I<sub>cc</sub>:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s\*
- **Cycle:** 8
- **Resistance:** 312.25 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

reset fail.

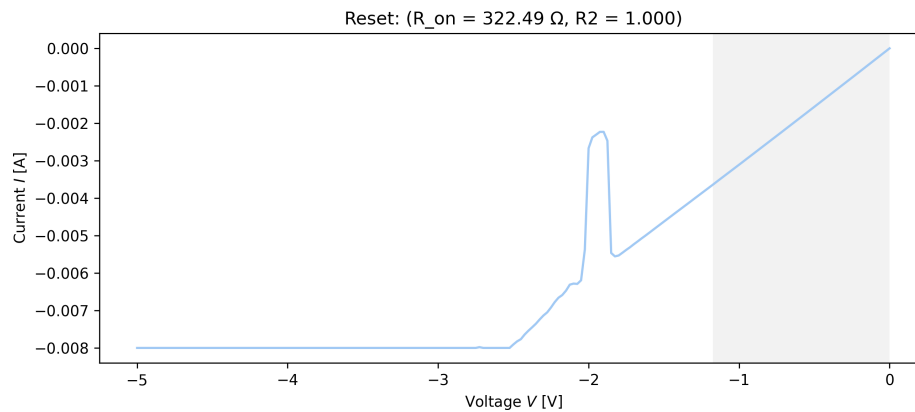


## reset

---

- **Time:** 03:56:15PM
- **Icc:** 8.0mA
- **Voltage Range:** 0V  $\rightarrow$  -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.813 V/s\*
- **Cycle:** 9
- **Resistance:** 322.49  $\Omega$
- **Linear Fit R2:** 1.000

reset fail, but weird bump in between.



## reset

---

- **Time:** 03:57:19PM
- **I<sub>cc</sub>:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s\*
- **Cycle:** 10
- **Resistance:** 296.82 Ω
- **Linear Fit R<sup>2</sup>:** 1.000

reset fail. giving up on this cell.

