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

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- **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 |

### Resistance
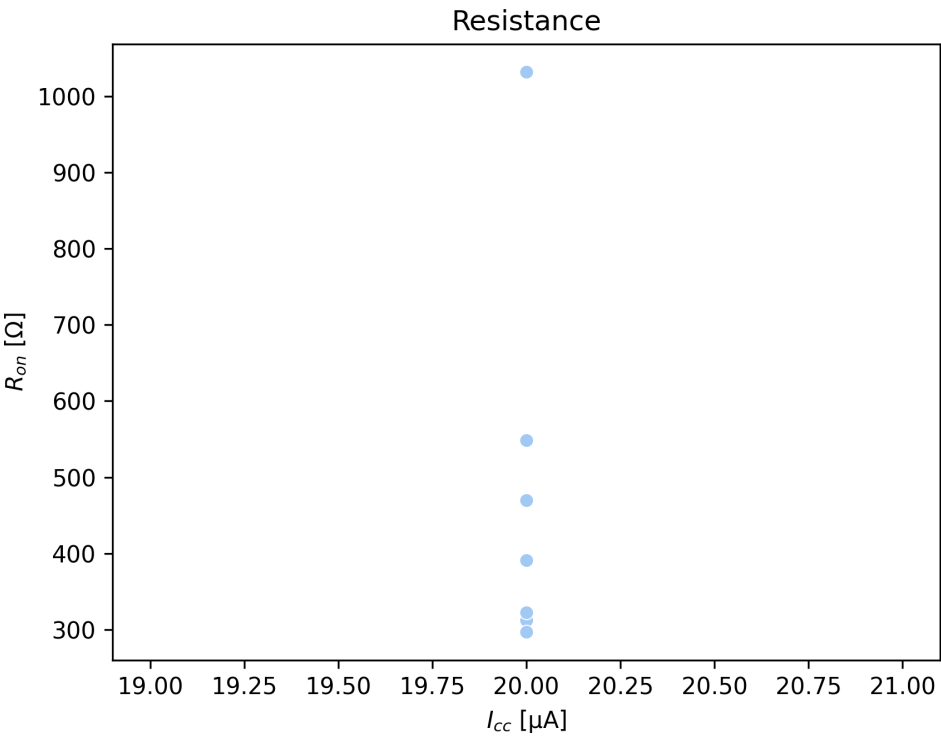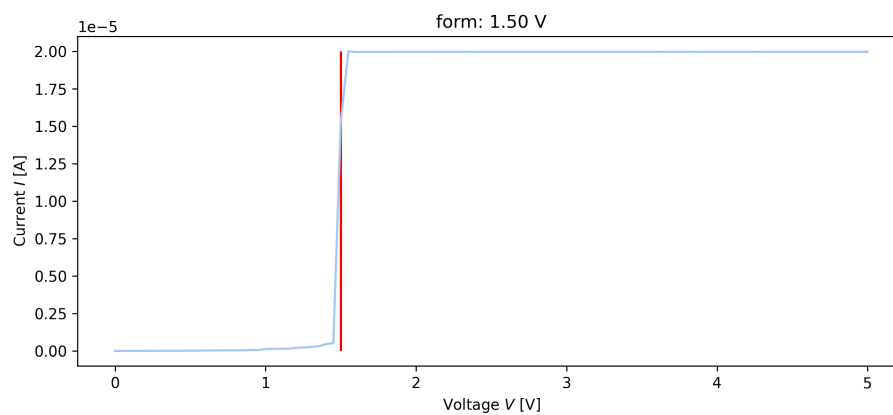
# form

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

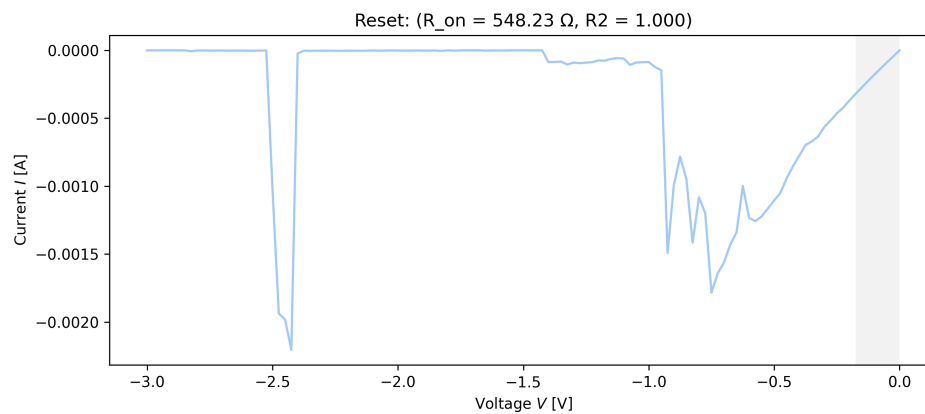Probe A on copper, B on platinum. Formed at 1.5V, very low.



form: 1.50 V

# reset

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- **Time:** 03:44:22PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.713 V/s*
- **Cycle:** 1
- **Resistance:** 548.23 Ω
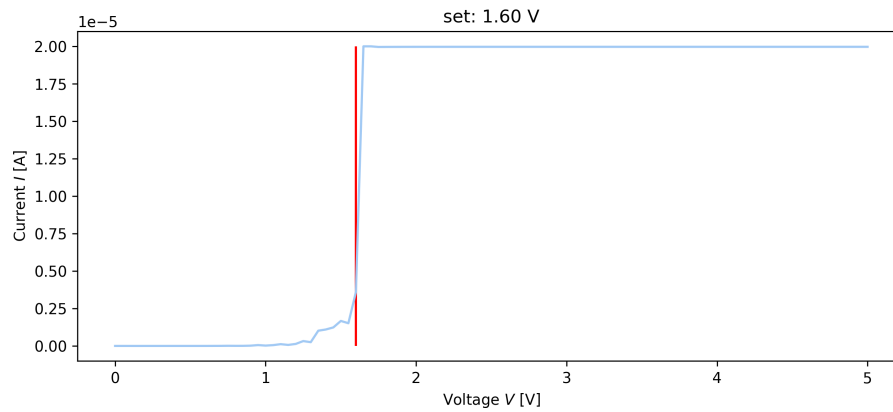- **Linear Fit R2:** 1.000

Reset confirmed but janky.



Reset: (R_on = 548.23 Ω, R2 = 1.000)

# set

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- **Time:** 03:45:18PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 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

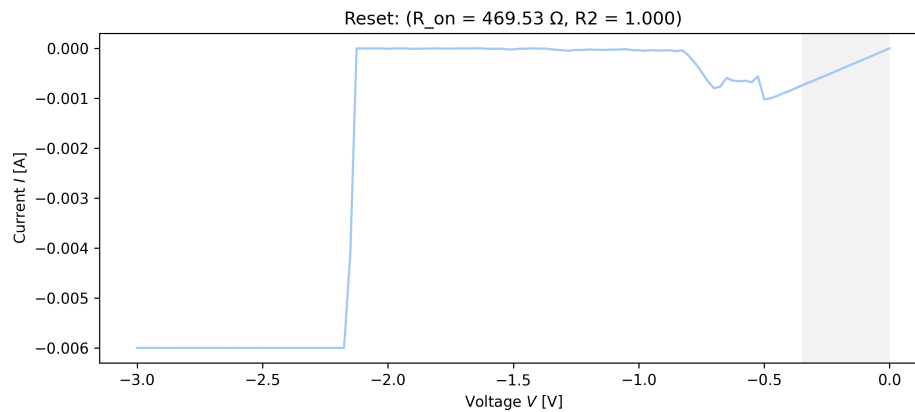# reset

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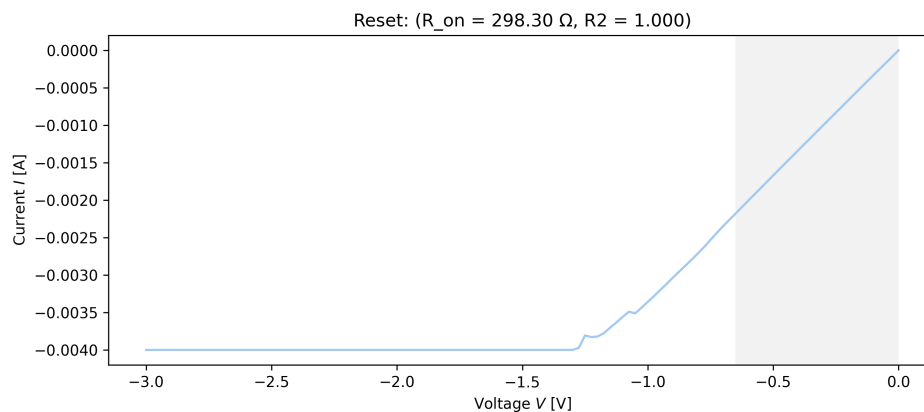- **Resistance:** 469.53 Ω
- **Linear Fit R2:** 1.000

reset fail.



Reset: (R_on = 469.53 Ω, R2 = 1.000)

# reset

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- **Time:** 03:47:07PM
- **Icc:** 4.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s*
- **Cycle:** 3
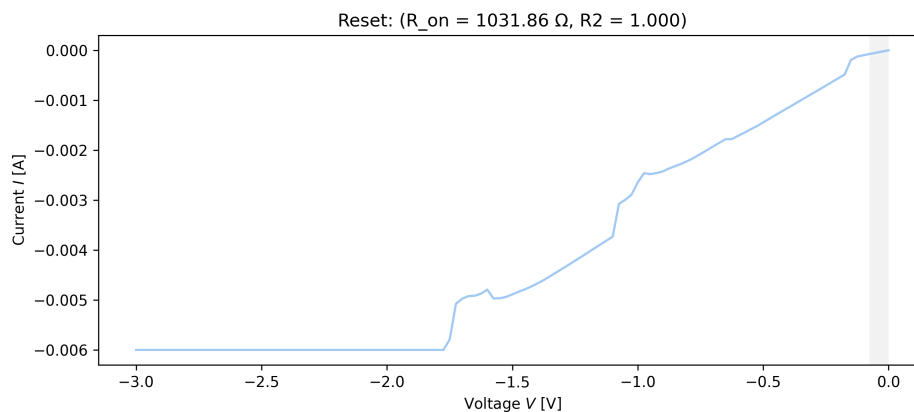- **Resistance:** 298.30 Ω
- **Linear Fit R2:** 1.000

reset fail.



Reset: (R_on = 298.30 Ω, R2 = 1.000)

# reset

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- **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
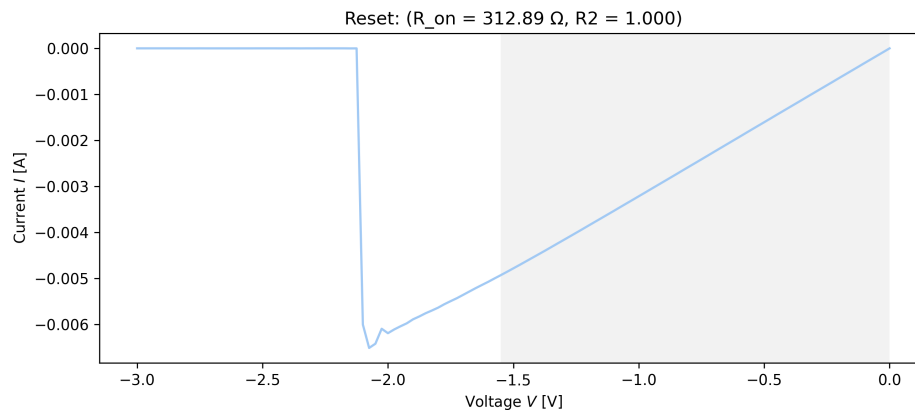- **Resistance:** 1031.86 Ω
- **Linear Fit R2:** 1.000

reset fail.



Reset: (R_on = 1031.86 Ω, R2 = 1.000)

# reset

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- **Time:** 03:48:37PM
- **Icc:** 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 R2:** 1.000
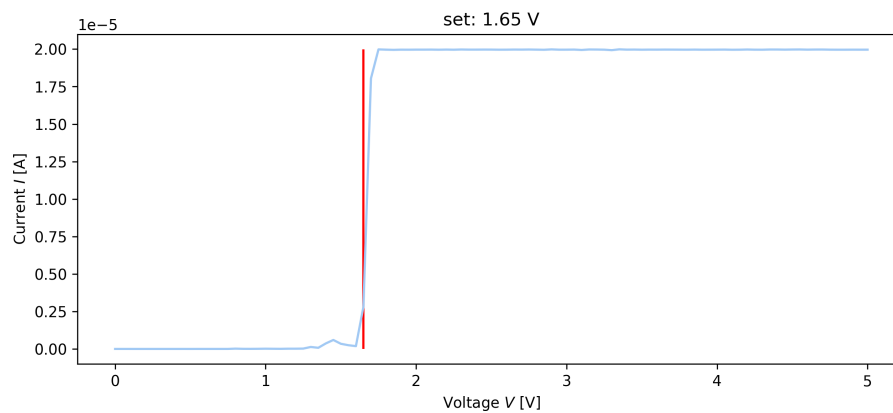
reset success, but took about 6.5mA. Looking good.



Reset: (R_on = 312.89 Ω, R2 = 1.000)

# set

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- **Time:** 03:50:24PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V → 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
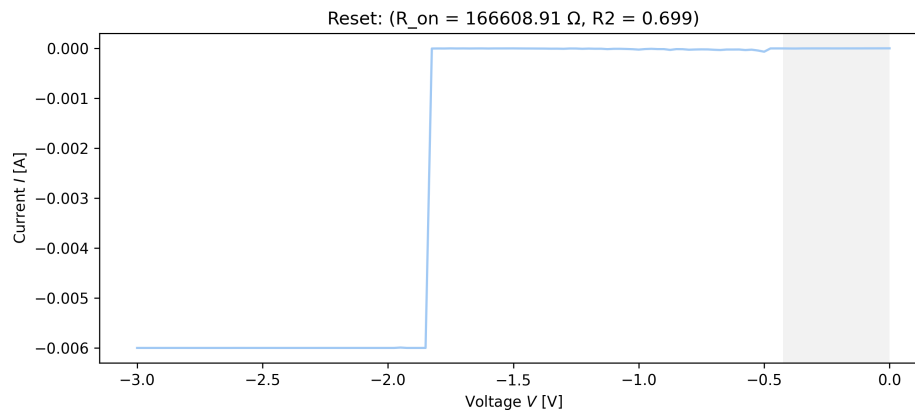
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- **Time:** 03:53:42PM
- **Icc:** 6.0mA
- **Voltage Range:** 0V → -3V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.548 V/s*
- **Cycle:** 6
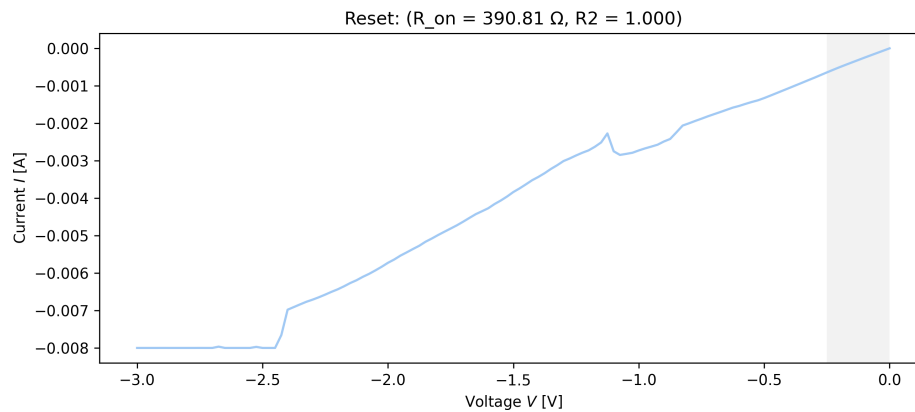- **Resistance:** 166608.91 Ω
- **Linear Fit R2:** 0.699

reset fail.



Reset: (R_on = 166608.91 Ω, R2 = 0.699)

# reset

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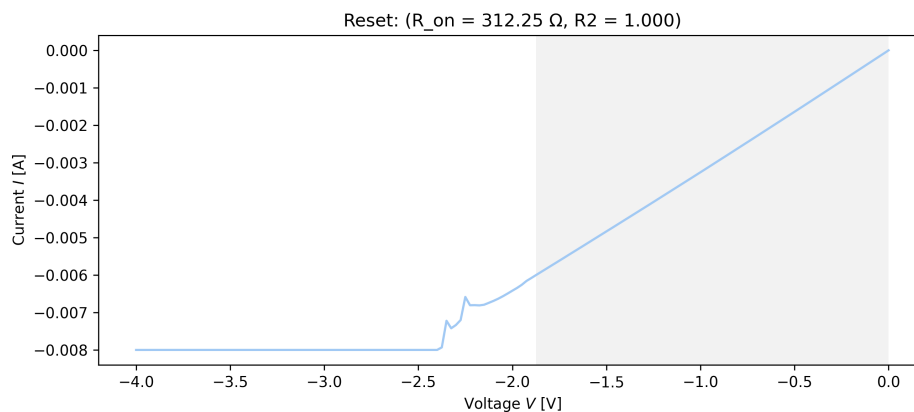- **Resistance:** 390.81 Ω
- **Linear Fit R2:** 1.000

reset fail.



Reset: (R_on = 390.81 Ω, R2 = 1.000)

# reset

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- **Time:** 03:55:29PM
- **Icc:** 8.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -0.826 V/s*
- **Cycle:** 8
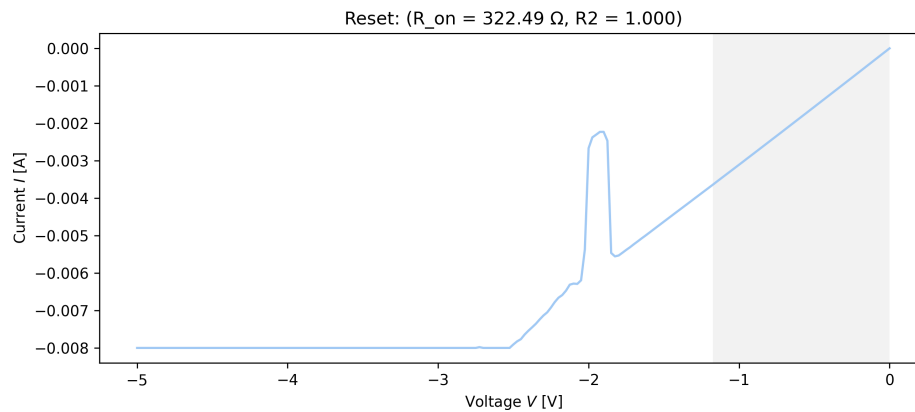- **Resistance:** 312.25 Ω
- **Linear Fit R2:** 1.000

reset fail.



Reset: (R_on = 312.25 Ω, R2 = 1.000)

# reset

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

reset fail, but weird bump in between.

# reset

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- **Time:** 03:57:19PM
- **Icc:** 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 R2:** 1.000

reset fail. giving up on this cell.