

The image contains two wiring diagrams for the SSW-115-02-G-S module, labeled J27 and J26.

**Diagram J27 (Left):**

- VCC3V3:** Connected to ARDUINO D13.
- VCC5V:** Connected to ARDUINO A7.
- GND:** Connected to ARDUINO VIN.
- Other pins:** ARDUINO AREF, ARDUINO A0, ARDUINO A1, ARDUINO A2, ARDUINO A3, ARDUINO A4, ARDUINO A5, ARDUINO A6, ARDUINO RESET.

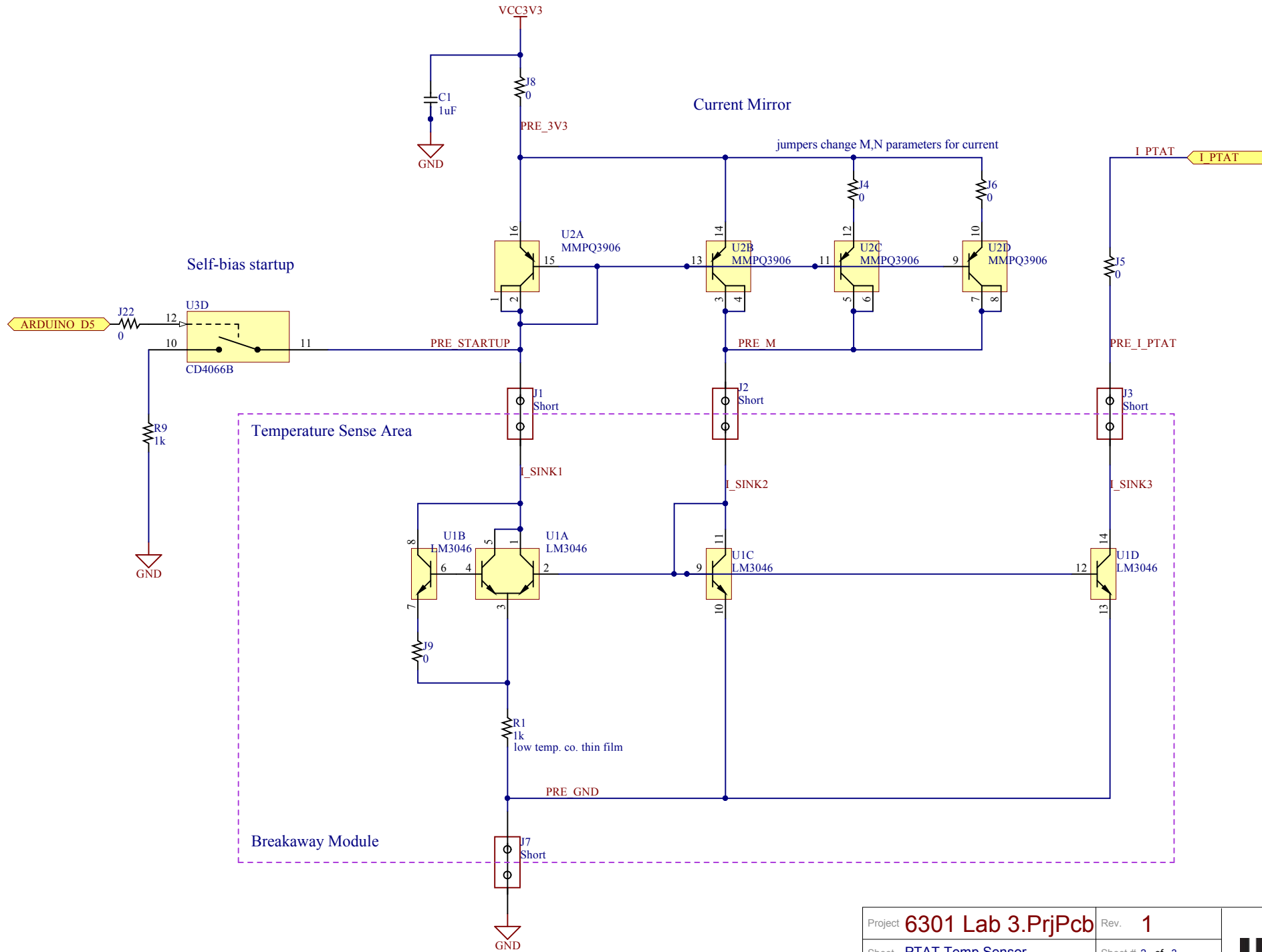
**Diagram J26 (Right):**

- VCC3V3:** Connected to ARDUINO D12.
- VCC5V:** Connected to ARDUINO D11.
- GND:** Connected to ARDUINO D1.
- Other pins:** ARDUINO D10, ARDUINO D9, ARDUINO D8, ARDUINO D7, ARDUINO D6, ARDUINO D5, ARDUINO D4, ARDUINO D3, ARDUINO D2, ARDUINO RESET.

The diagram shows a voltage divider circuit. A 5V supply (VCC5V) is connected to a 47k resistor (R8). The other end of R8 is connected to a node labeled 'VCC1V8 DIV'. This node is also connected to a 56k resistor (R7) which leads to ground (GND). The 'VCC1V8 DIV' node is connected to the non-inverting input (+) of an op-amp (U5B, TL072) through a 10 ohm resistor (J20). The op-amp is configured as a voltage follower (buffer), with its output (pin 7) connected back to its inverting input (-) through a 100 ohm resistor (R3). The output of the op-amp is also connected to a 15 ohm resistor (J15) which leads to a reference voltage (VREF).



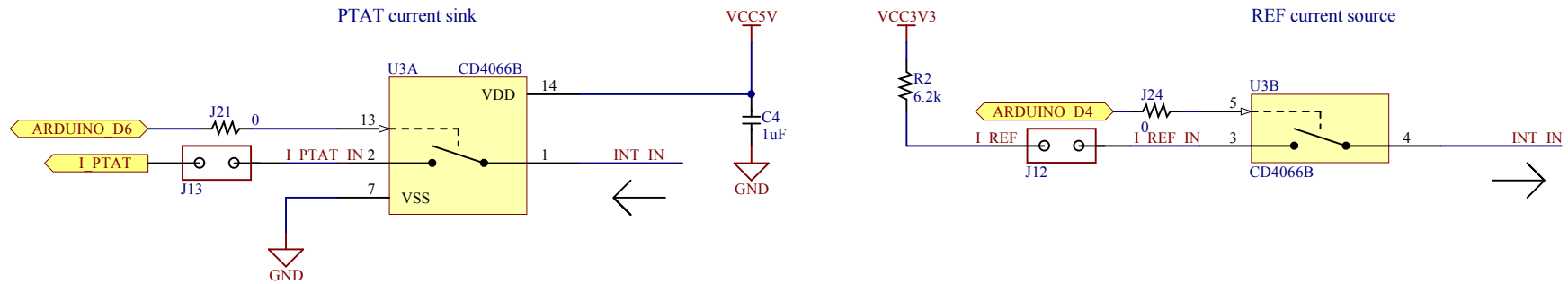
Project	6301 Lab 3.PrjPcb	Rev.	1
Sheet	Main Sheet	Sheet # 1	of 3
		Doc. #	*
Author	M. Holacek	Date	12/5/2016



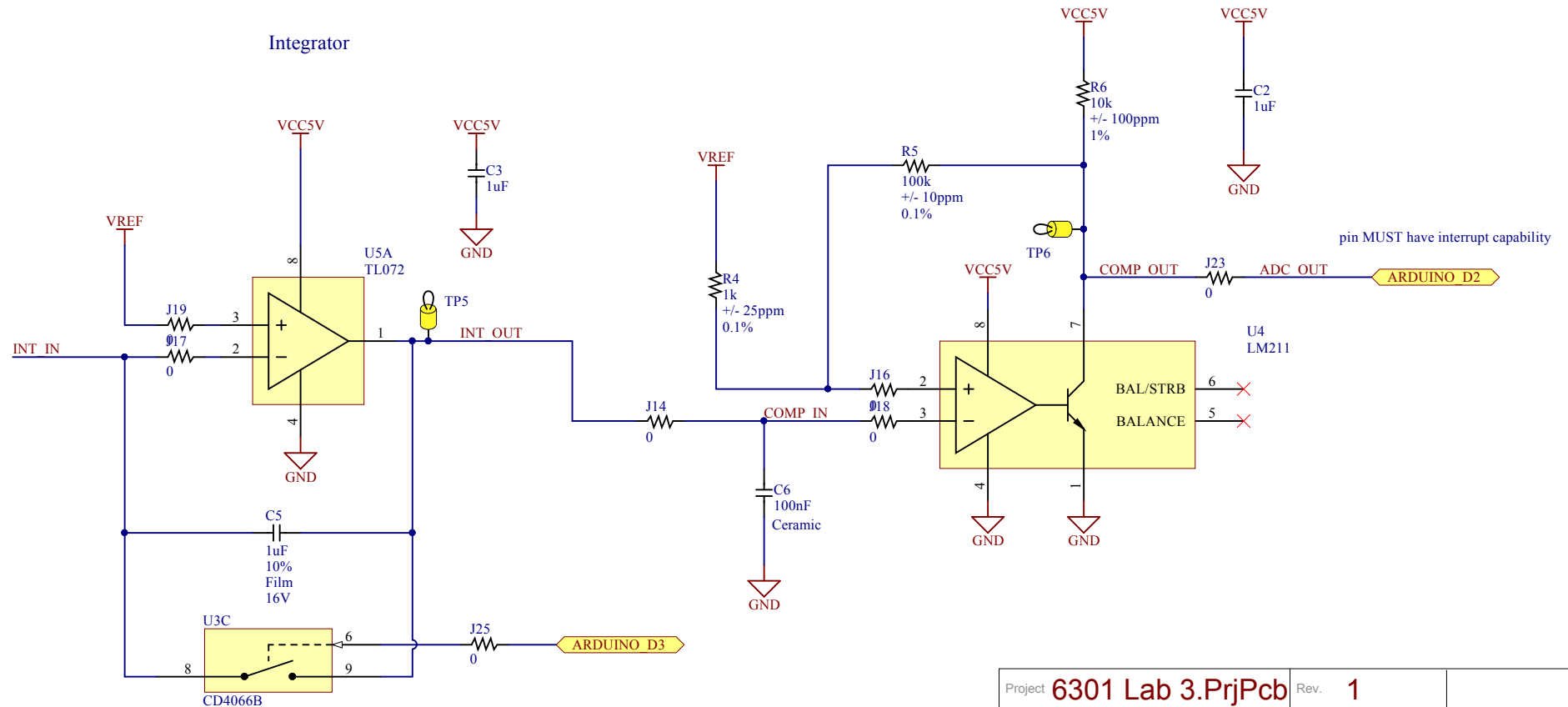
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## Input Current Switching



## Comparator with hysteresis



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