

1. Esquemático jerárquico
2. RS232_TTL
3. SIM800L
4. Buttons_Leds
5. LM35_LM317_POT
6. Fuente



Sheet: Buttons_Leds

Fuente Alimentacion
out: 5V-3A y 3.3V-1A
in: 8 -30V

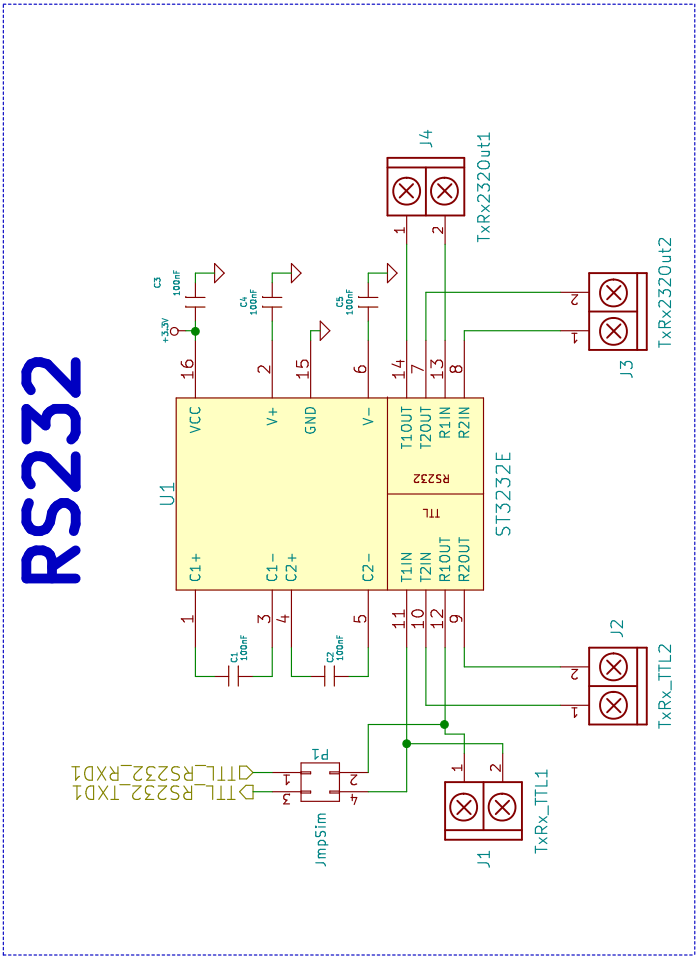
Sheet: Fuente

File: Fuente.sch

Sheet: /
File: tp_vino.sch

Rev: 1.0

Size	1000000000
Model	kiCad E.D.A.
Version	4.0.6-e0-634953ubuntu14.04.1

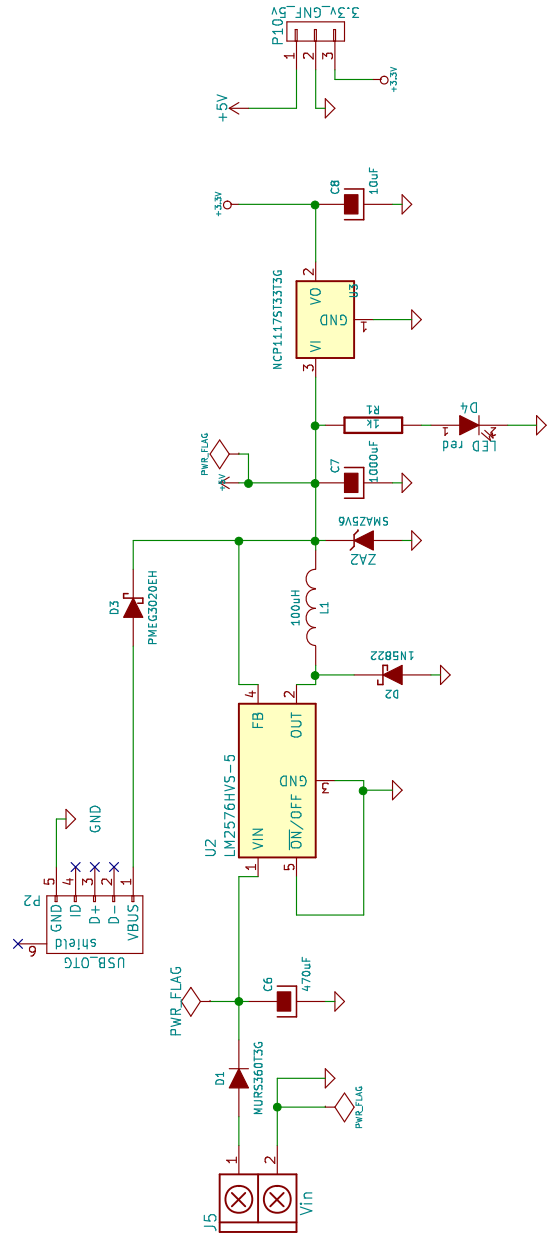


Sheet: /RS232_TTL/
File: RS232_TTL.sch

Title: CIAA RS485 – RS232 – CAN

Size: A4 | Date: 11 may 2015 | **Rev. 1.0**
KiCad E.D.A. | kicad 4.0.6-e0-634953ubuntu14.04.1 | Id: 2/5

Fuente de alimentación con rango aproximado de entrada de 8 a 30V (CC). Tensiones de salida: 5V, 3A y 3.3V, 1A. Posibilidad de alimentar la CIAA a través del puerto USB mediante la conexión con D1.



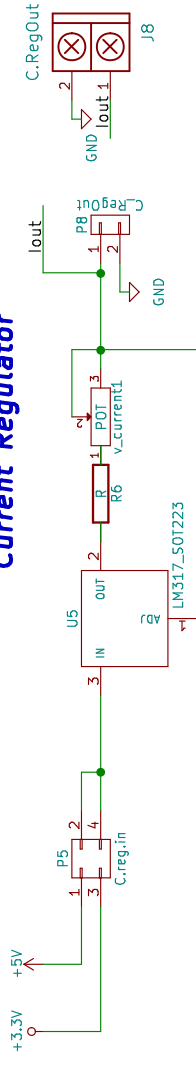
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Title: Fuente de alimentación

Size: A4	Date: 11 may 2015
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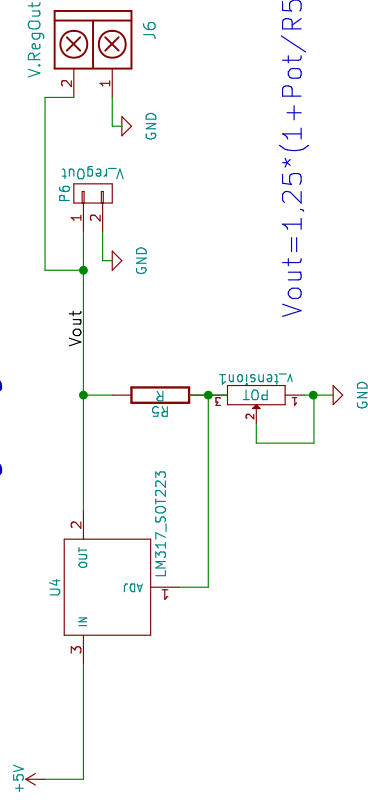
Current Regulator



$$I_{out} = V_{ref} / (R6 + Pot)$$

$$V_{ref} = 1,25V \text{ aprox.}$$

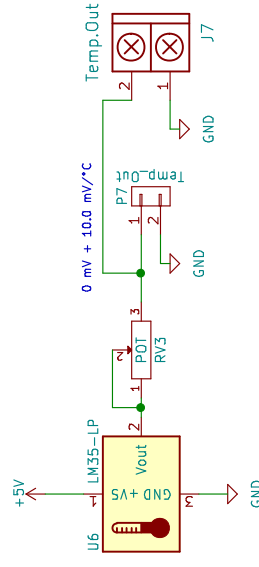
Voltage Regulator



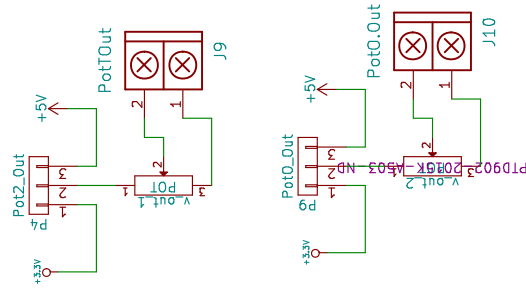
$$V_{out} = 1,25 \cdot (1 + \text{Pot}/R5) + I_{adj} \cdot \text{Pot}$$

Sensor Temperatura

Basic Centigrade
(2 °C to 150 °C)



Variacion de Tension



Sheet: /LM35_LM317_POTE/
File: LM35_LM317_POTE.sch

Title: EDU CIAA EXPANSIÓN

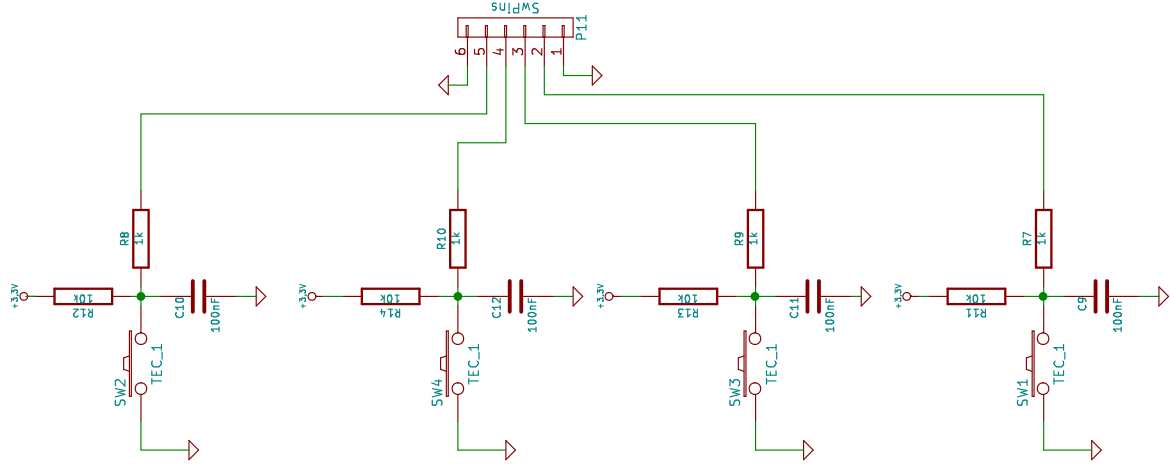
Size: A4	Date: 5 oct 2015
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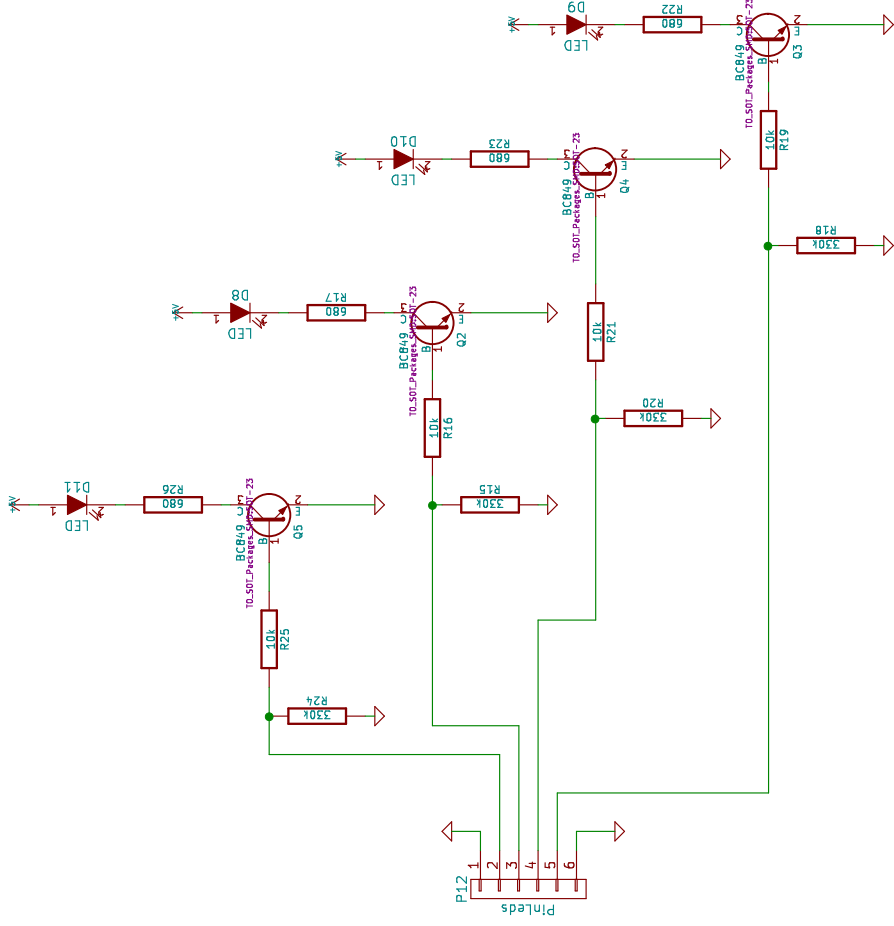
Rev: 1.2

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Pulsadores



Leds



Sheet: /Buttons_Leds/
File: Buttons_Leds.sch

Title: EDU CIAA EXPANSIÓN

Size: A4 Date: 5 oct 2015

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Rev: 1.2

Id: 5/5