

Minimal Schematic to create an Arduino Zero compatible board

**Thomas Pointhuber**  
Sheet: /Arduino\_Zero\_Base/  
File: Arduino\_Zero\_Base.sch

**Title: Arduino Zero base schematic**

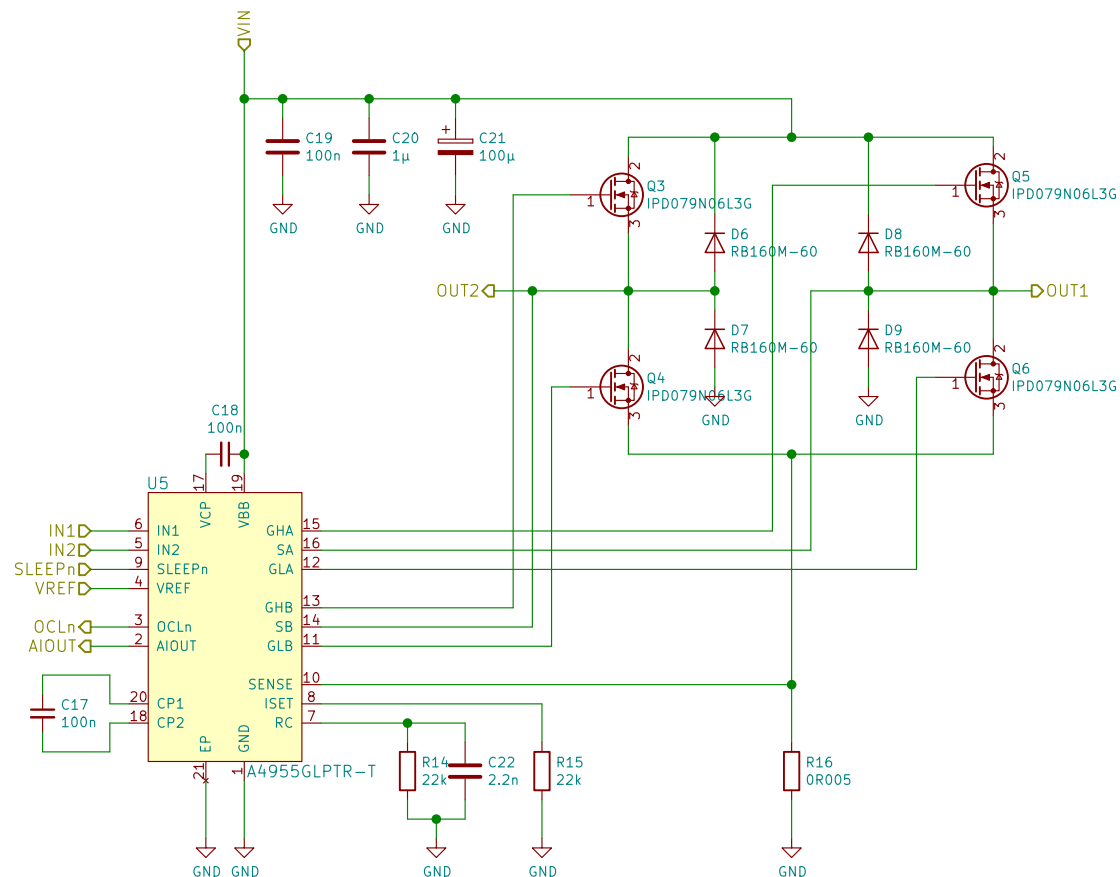
Size: A4	Date: 2016-10-15	Rev: 0.1
KiCad E.D.A.	kiCad (2016-11-05 revision 3af551c)-master	Id: 2/7

**ISET**

RC

T\_OFF = 49,4μs  
T\_BLANK = 6,7μs

I\_MAX = 10A  
VREF\_MAX = 0.5V



Id: 3/7

**ISSET**

$I_{GATE\_HS} = 42.8\text{mA}$   
 $I_{GATE\_LS} = 80.7\text{mA}$

**RC**

$T_{OFF} = 49.4\mu\text{s}$   
 $T_{BLANK} = 6.7\mu\text{s}$

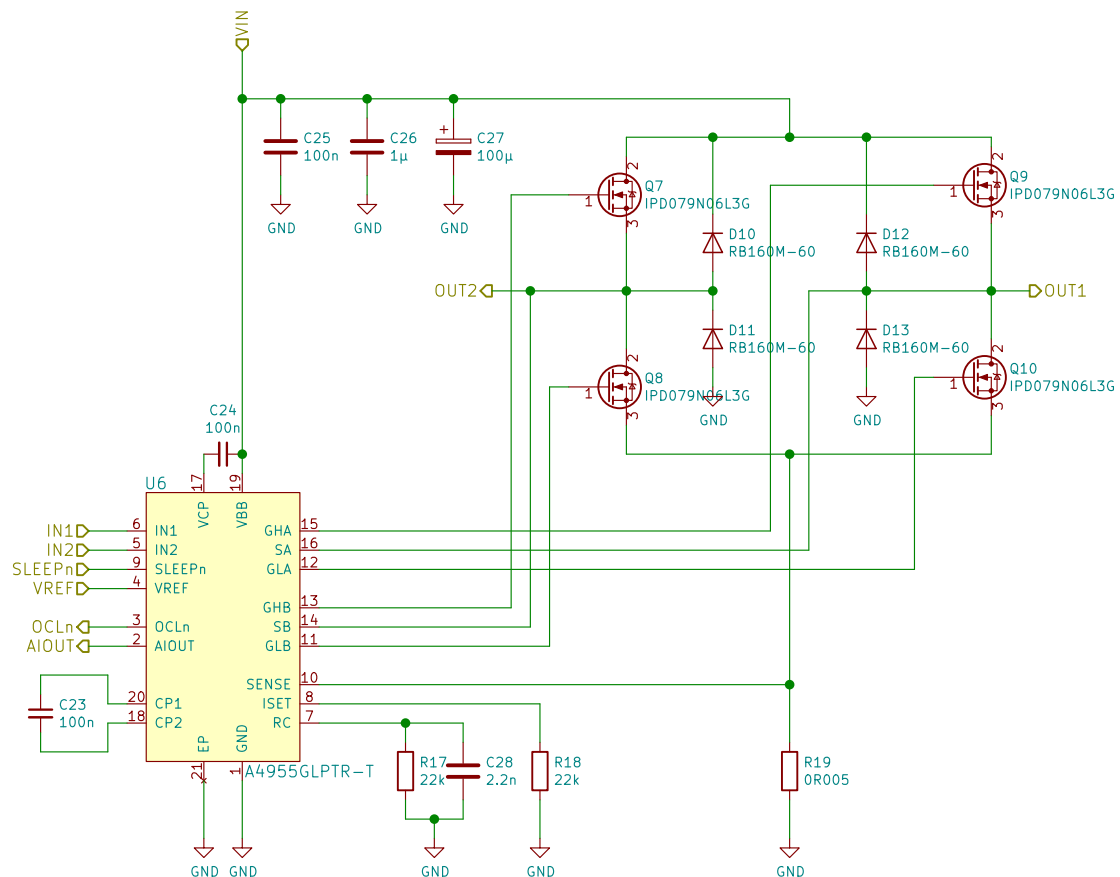
**Current Limiter**

$I_{MAX} = 10\text{A}$   
 $V_{REF\_MAX} = 0.5\text{V}$

I\_GATE\_HS = 42.8mA  
I\_GATE\_LS = 80.7mA

T\_OFF = 49,4μs  
T\_BLANK = 6,7μs

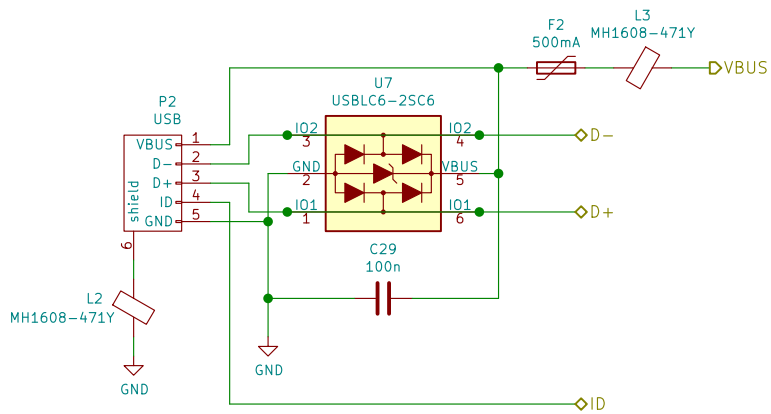
```
I_MAX = 10A
VREF_MAX = 0.5V
```



Sheet: /PWM\_Bridge\_A4955-B/  
File: PWM\_Bridge\_A4955.sch

Size: A4	Date: 2016-10-22
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Id: 4/7



**Thomas Pointhuber**

Sheet: /Protected\_USB\_Supply/

File: Protected\_USB\_Supply.sch

**Title: USB input including protection circuit**

Size: A4

Date: 2016-10-22

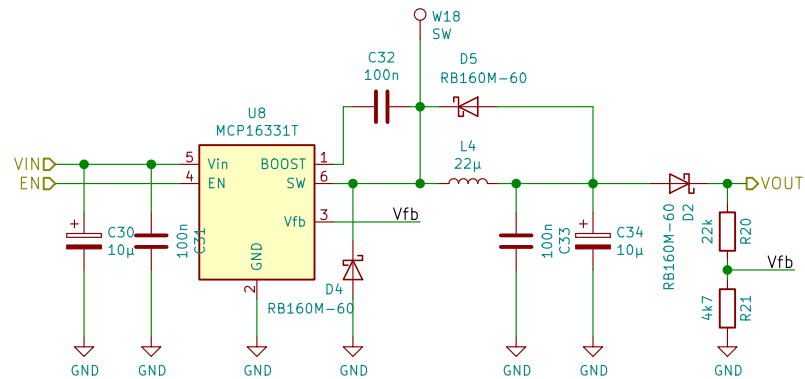
**Rev: 0.1**

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Id: 5/7

OUTPUT VOLTAGE

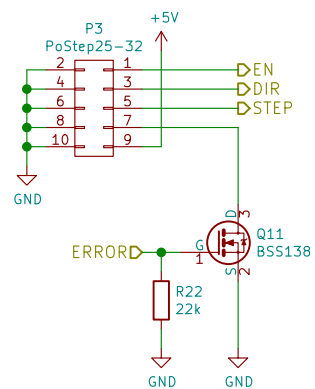
```
R_TOLERANCE = 1%
U_OUT_MIN = 4.47V
U_OUT_MAX = 4.62V
```



Sheet: /MCP16331\_5V/  
File: MCP16331\_5V.sch

Size: A4	Date: 2016-10-22
KiCad E.D.A. kicad (2016-11-05 revision 3af551c)-master	

Id: 6/7



Thomas Pointhuber

Sheet: /PoStep25-32\_galvanic/  
File: PoStep25-32\_galvanic.sch

**Title: PoStep25-32 input including optional galvanic separation**

Size: A4 Date: 2016-10-22 Rev: 0.1

KiCad E.D.A. kicad (2016-11-05 revision 3af551c)-master

Id: 7/7