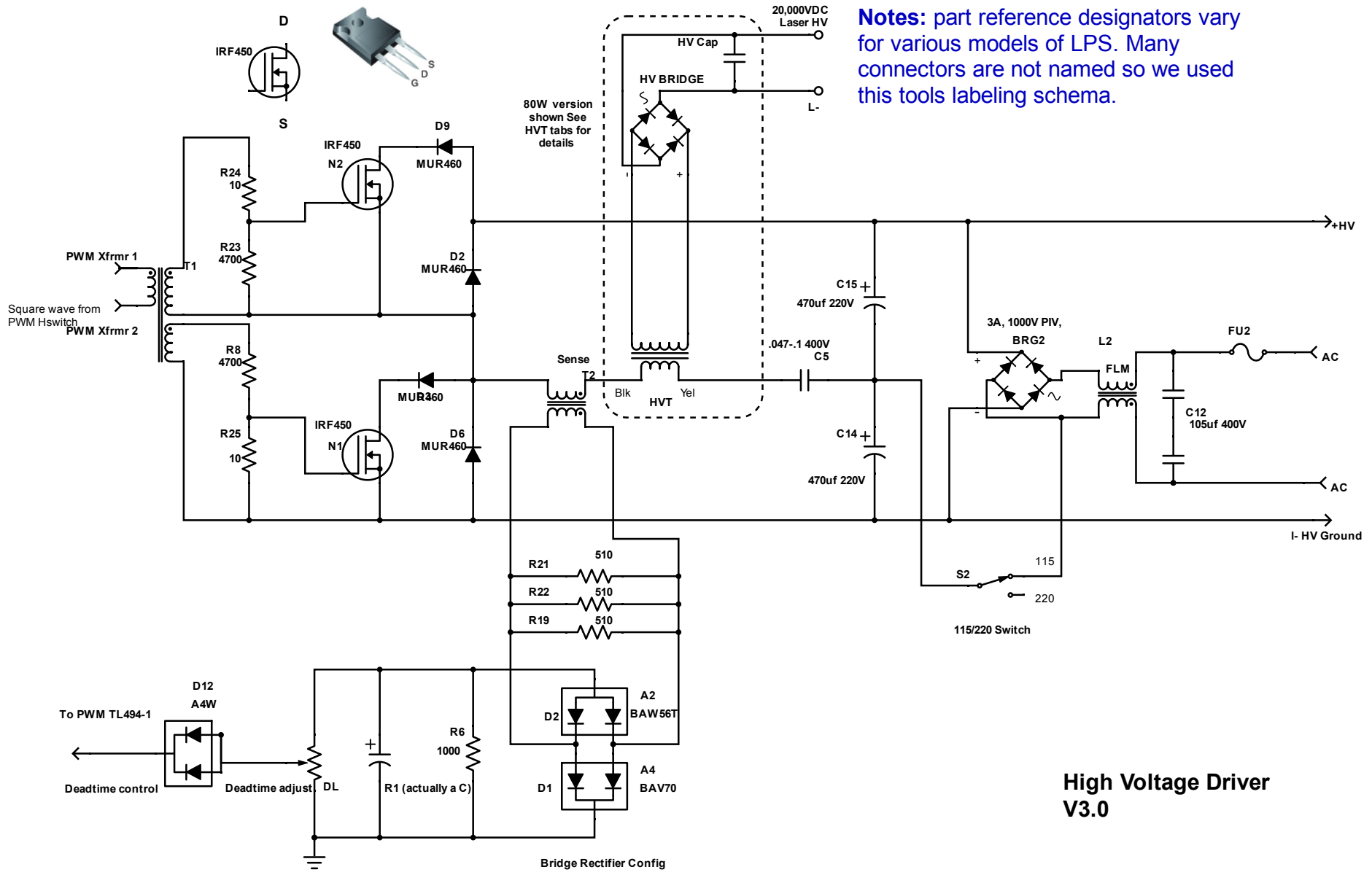
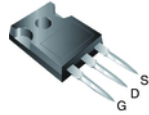
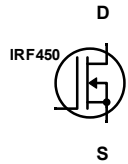


TO-247



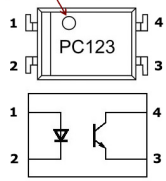
**Notes:** part reference designators vary for various models of LPS. Many connectors are not named so we used this tools labeling schema.

Bridge Rectifier Config

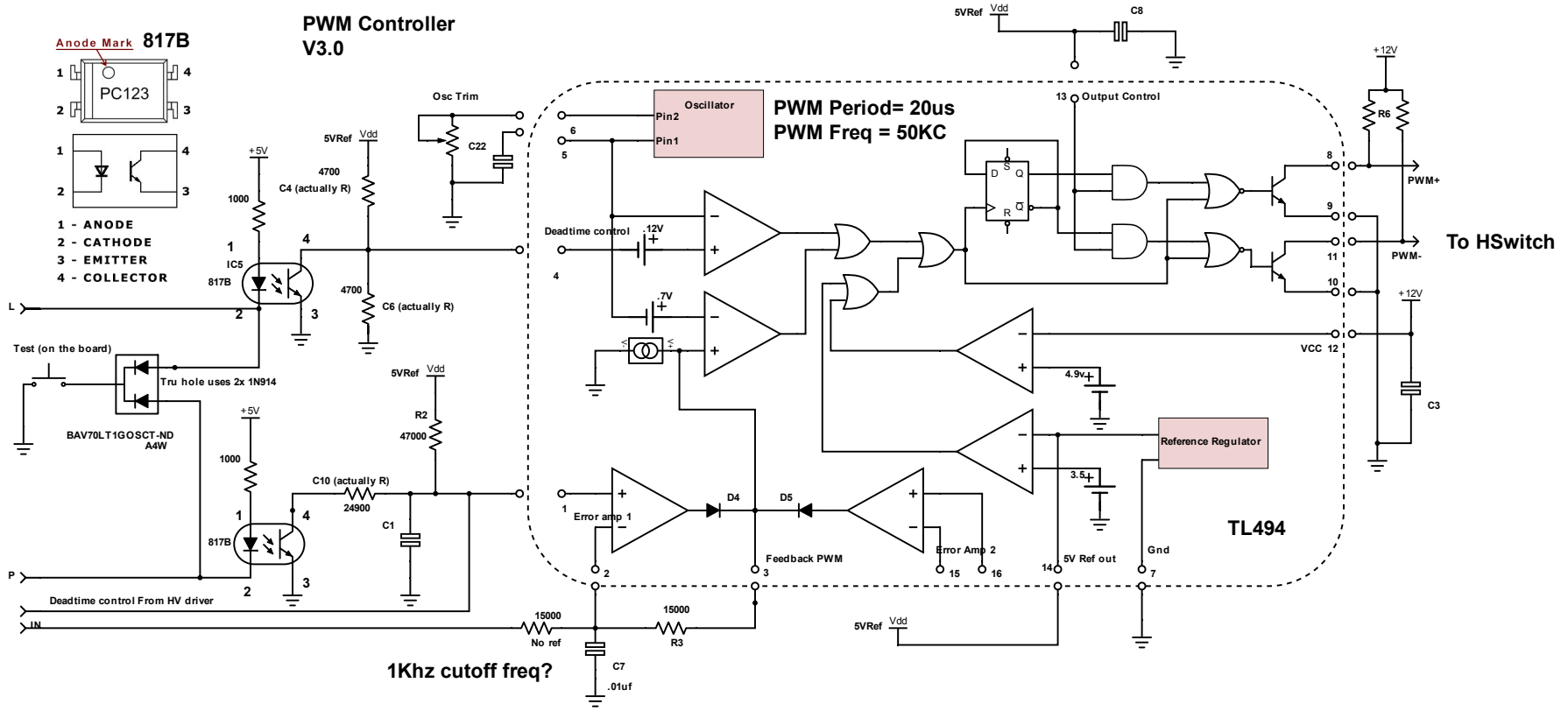
### High Voltage Driver V3.0

# PWM Controller V3.0

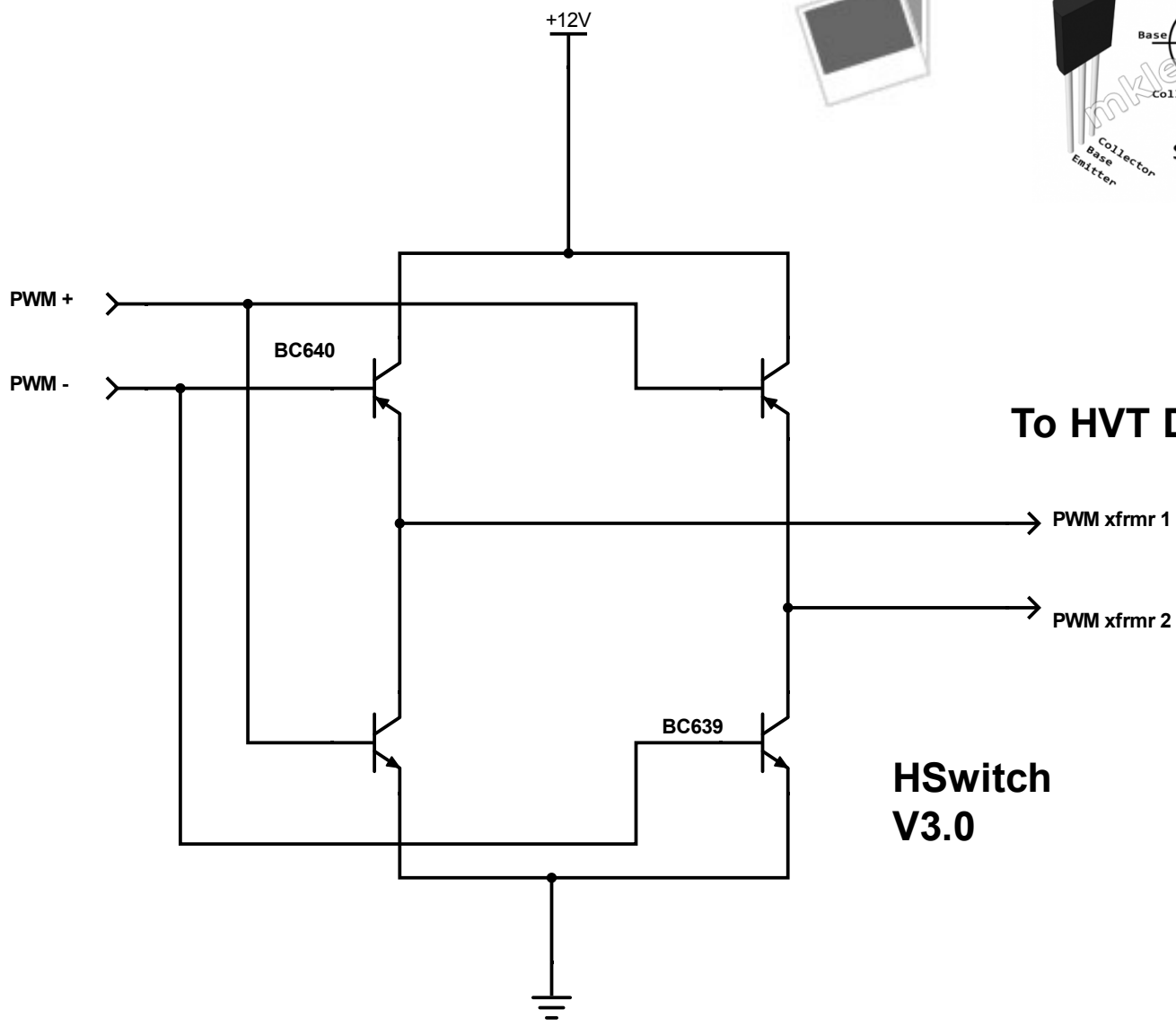
Anode Mark 817B



- 1 - ANODE
- 2 - CATHODE
- 3 - EMITTER
- 4 - COLLECTOR

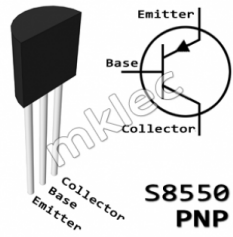


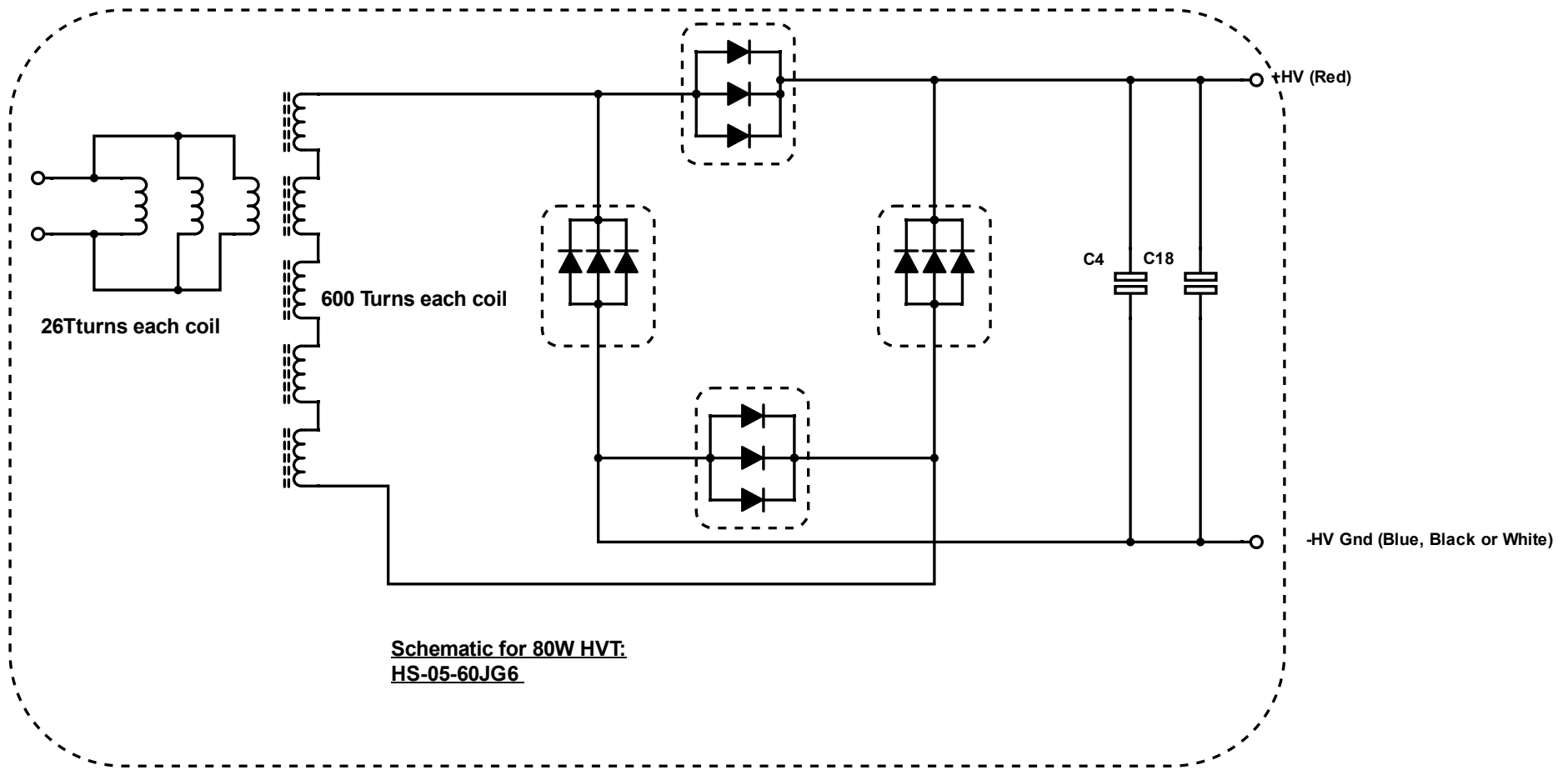
From PWM controller



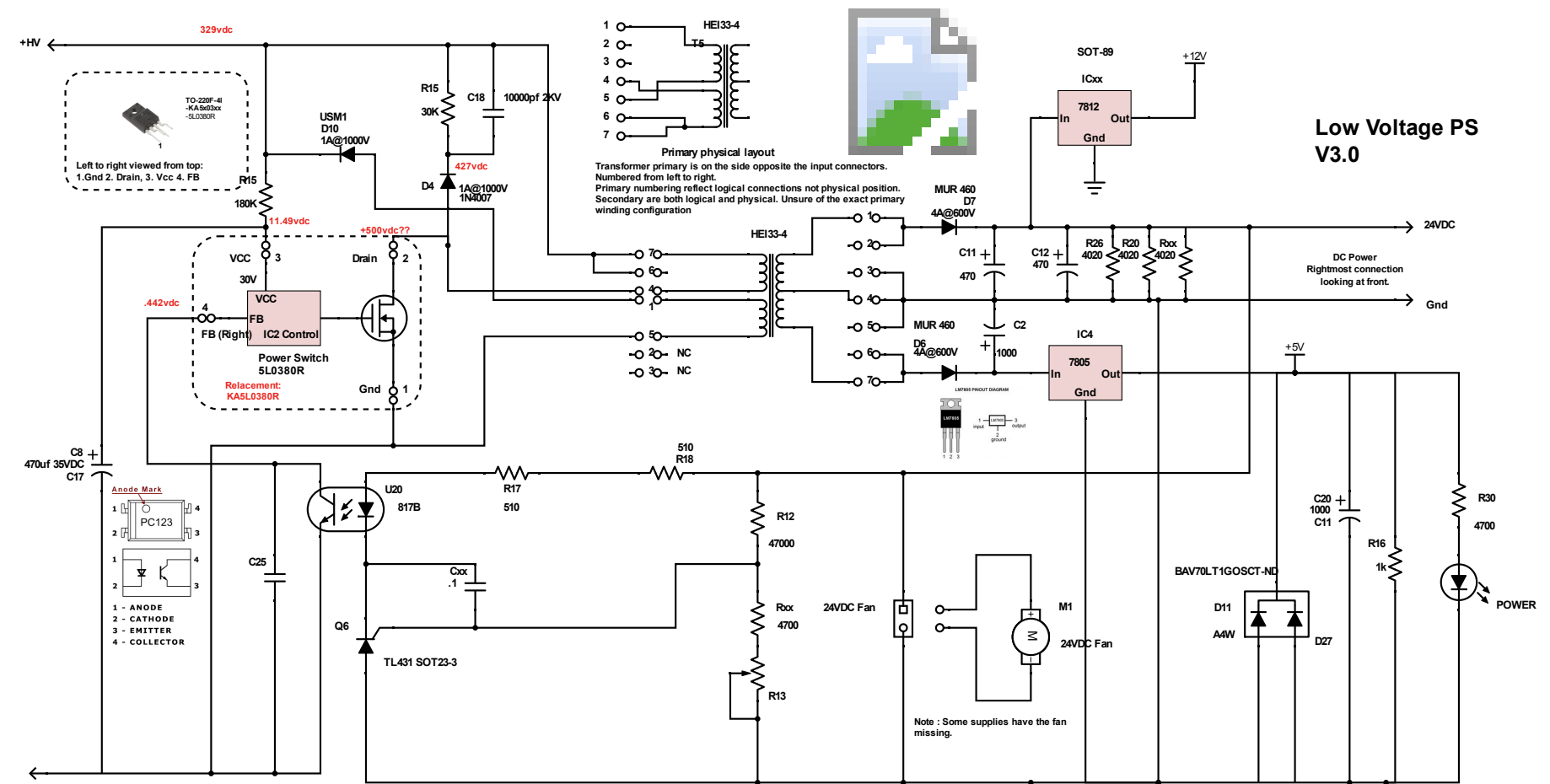
To HVT Driver

HSwitch V3.0



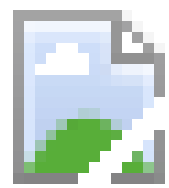
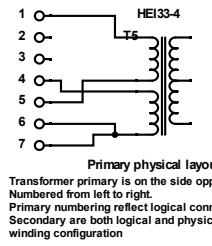


**Schematic for 80W HVT:**  
**HS-05-60JG6**



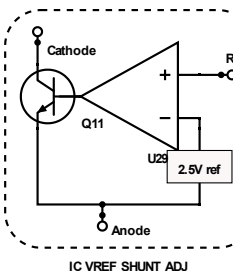
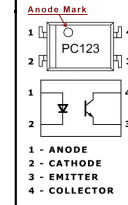
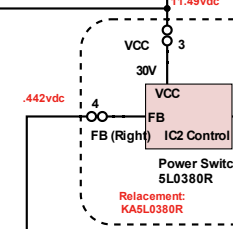
### Low Voltage PS V3.0

DC Power  
Rightmost connection  
looking at front.



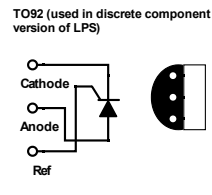
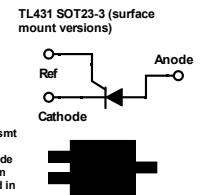
TO-220F-4L  
-KA5803AZ  
-SL0380R

Left to right viewed from top:  
1.Gnd 2. Drain, 3. Vcc 4. FB



TL431CPK  
296-1991-1-ND  
[Link](#)

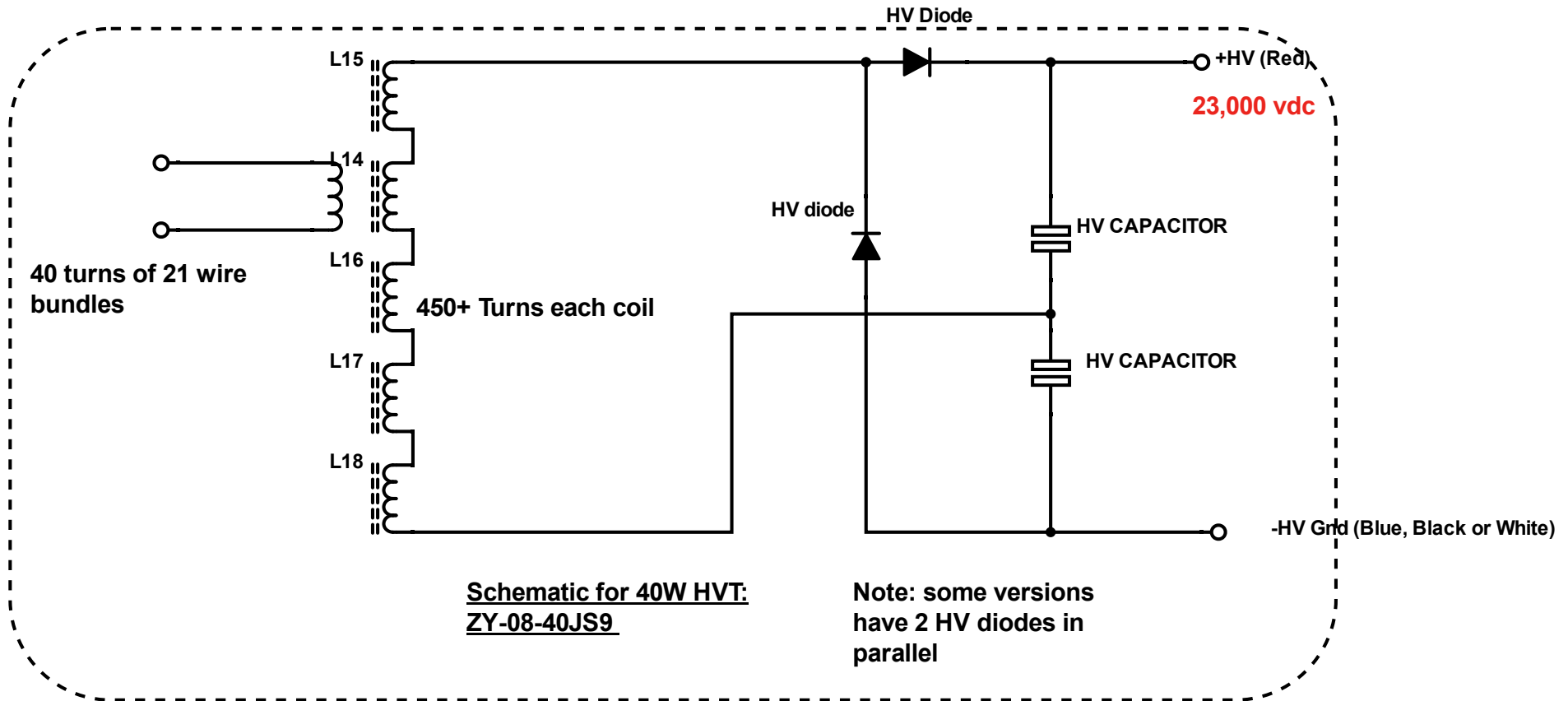
The implementation of the 431 in the smt version of the board seems to be connected like a 432 in that the cathode and ref are reversed???? The diagram to the right shows how it is connected in the curcuit but that is the layout of a 432?



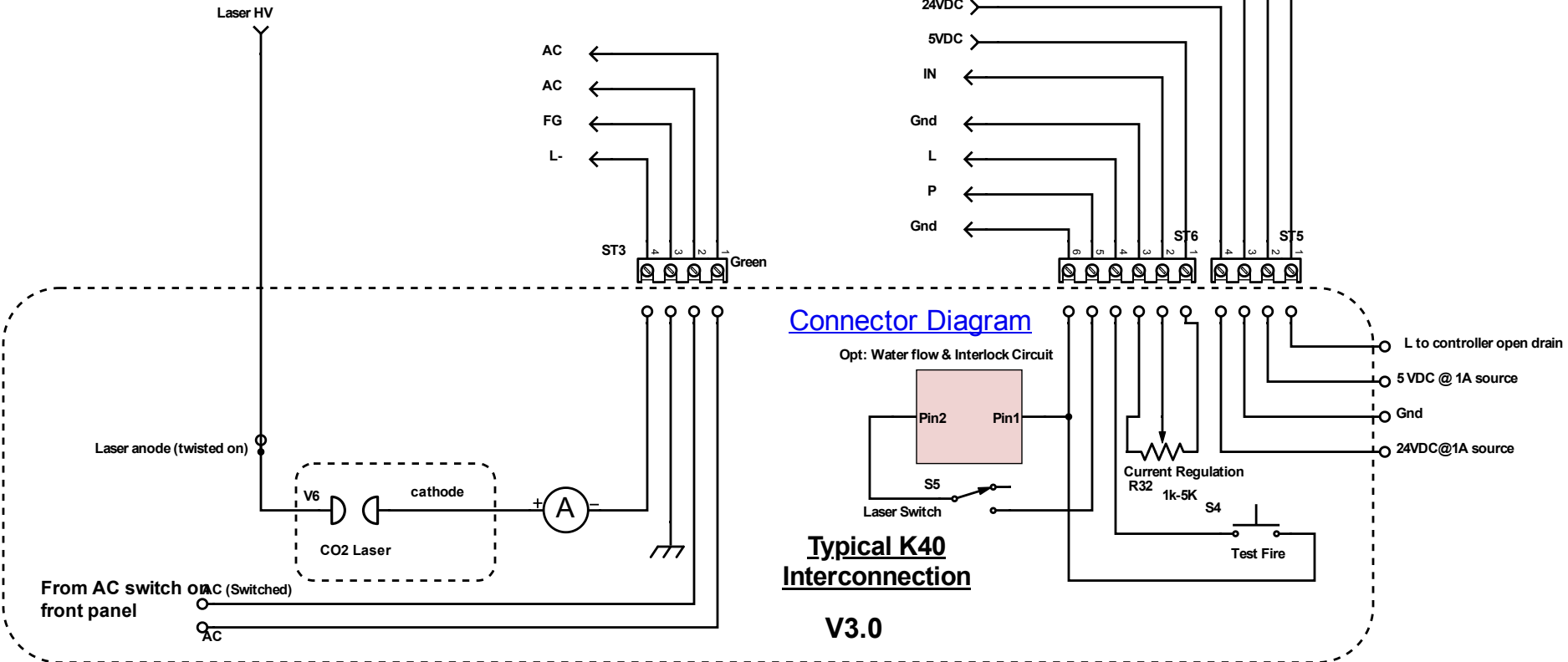
Note : Some supplies have the fan missing.

HV Ground

POWER

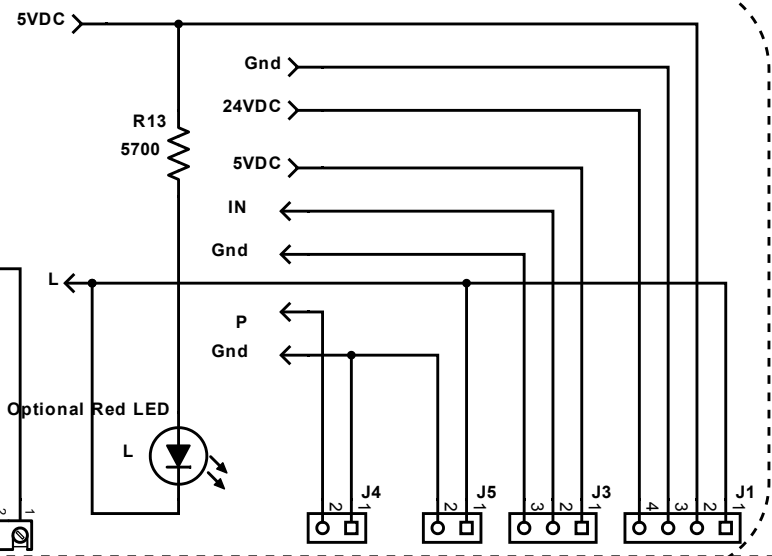


## Laser HV Power Supply Internals



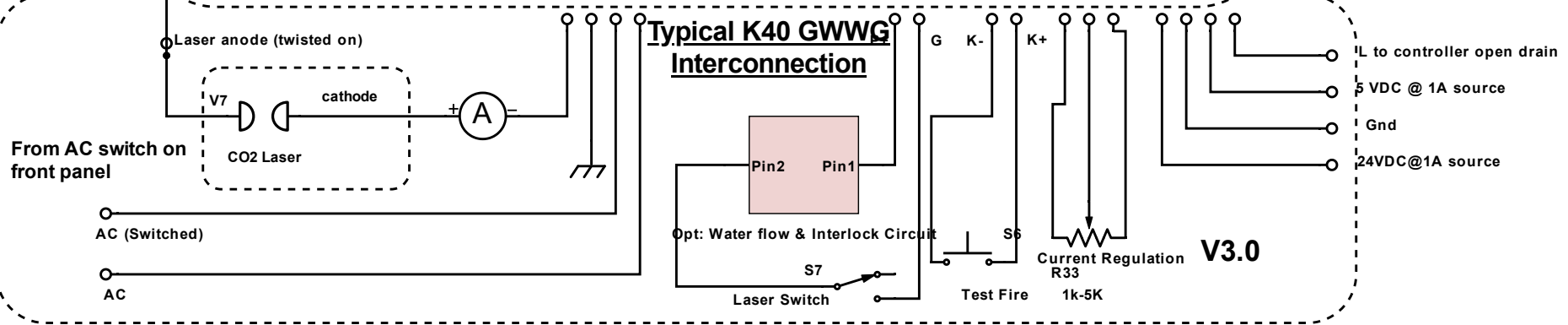
Laser HV

### Laser HV Power Supply Internals



**Notes on LPS variants:**  
 -Some supplies have K-/K+ reversed.  
 -Some have missing fans

### Typical K40 GWWG Interconnection



**V3.0**