

# Note:

The maximum switching speed is limited by the ~150mA current capability of the isolated power supply. voltage sags under load and no current limit. Transformer and diode will smoke under overload.

The desaturation detection is HIGH when the collector voltage exceeds -6V or so. Which occurs when the transistor is in the active (bad) or cutoff (safe) region.

The long resistor series is useful if you want to measure the voltage of a half-bridge at the VCC/2 crossing point useful for BLDC motor controllers etc.

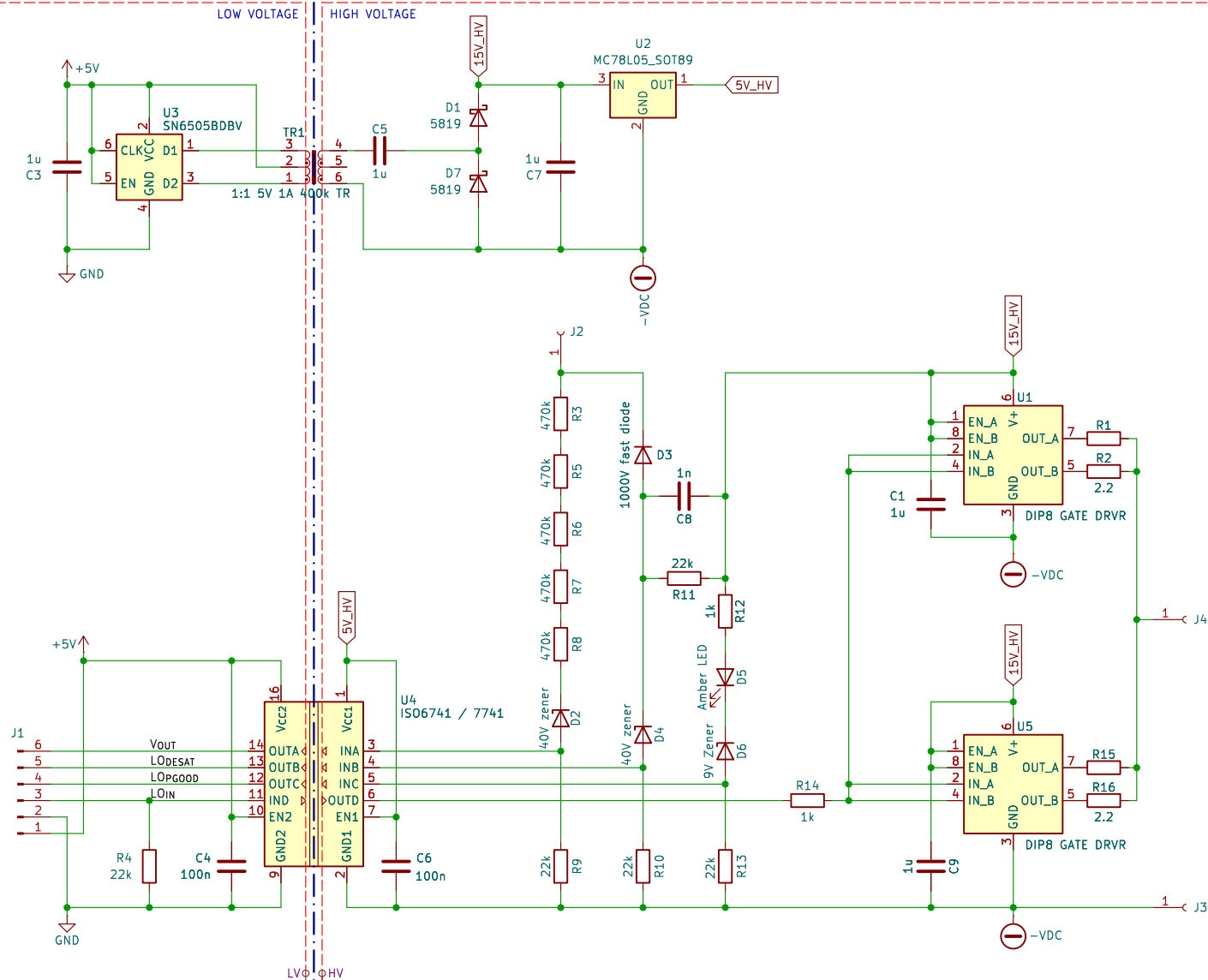
**WARNING:**  
there is no built in protection to kill the gate drive in the case of a fault condition such as over-current, desaturation, shoot-through. desaturation detection was easy enough to implement but no shutoff protection or dead-time insertion is built in. These are the responsibility of the user / system integrator.

FID1  
Fiducial

FID2  
Fiducial

FID3  
Fiducial

FID4  
Fiducial



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File: IGBT\_DRV\_CM400HA-24H.kicad\_sch

**Title:** CM400HA-24H IGBT Driver Module

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