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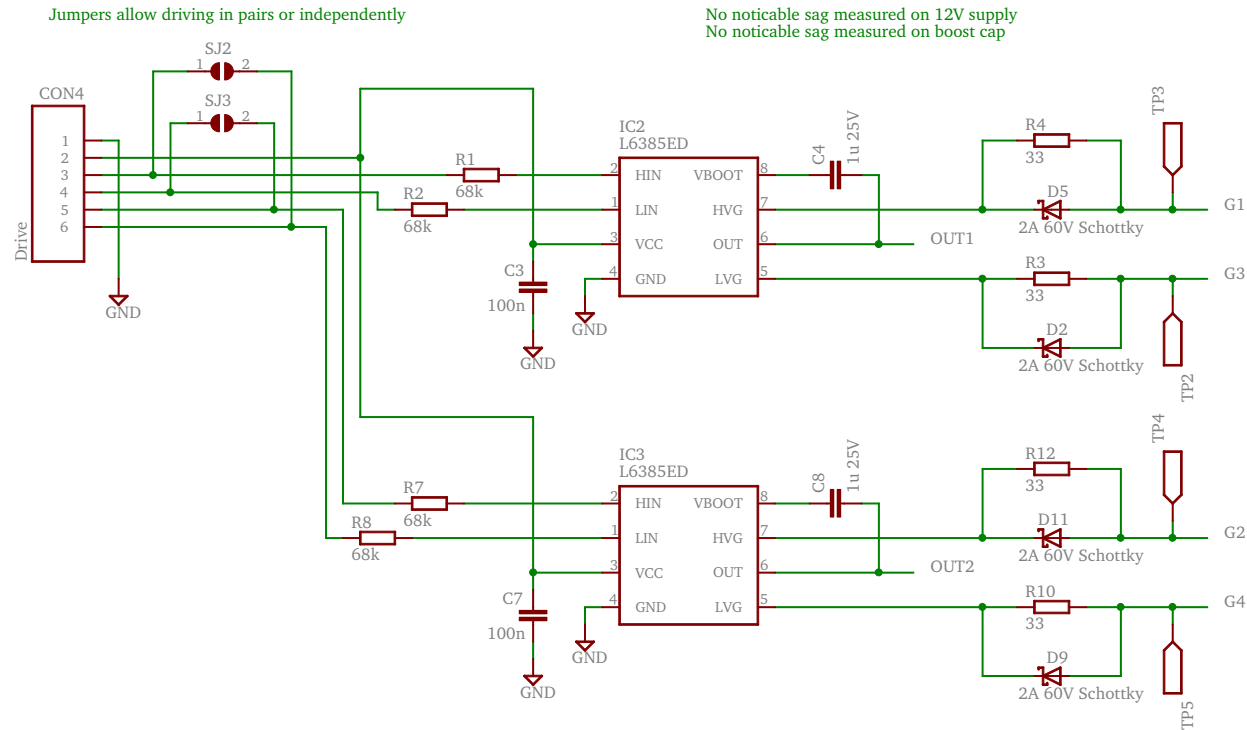


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6/28/2018 11:47:05 f=0.90 /mnt/eagle/inverter/boost-converter/boost-converter-v101/boost-v101.sch (Sheet: 1/3)

1A 400V fast recovery diode, UF4004GP-TP DO41, Digikey #UF4004GP-TPMSCT-ND
 L6385E high low driver, STMicroelectronics L6385ED013TR 400mA source max, Digikey #497-6214-1-ND
 Schottky diode 2A 60V, B260-13-F, Digikey #B260-FDICT-ND

Texas Instruments LM5100 or LM5101 is an alternative driver option (SOIC8, bootstrap in-built)
 Micrel MIC4100/1 is an alternative driver option (SOIC8, bootstrap inbuilt)



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 Design by Martin van den Nieuwelaar, martin@gadgets.co.nz

Driver

TITLE: boost-v101

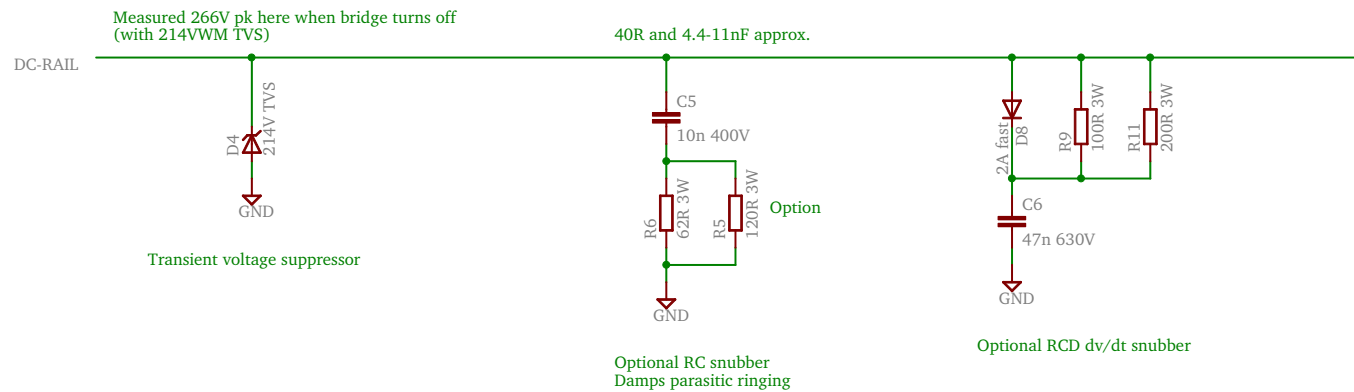
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TVS diode 214V, Littelfuse 1.5KE series 1.5KE250A, Digikey #1.5KE250ALFCT-ND
 2A fast recovery diode, HER208G-TP 1kV DO15 trr=75ns, Digikey #HER208G-TPMSCT-ND
 10n 400V high dv/dt capacitor, Kemet R75MD2100AA40J, Digikey #399-5900-ND
 47n 630V high dv/dt capacitor, Kemet R75PI2470AA30J, Digikey #399-9682-ND
 62R 3W metal oxide film resistor, Panasonic ERG-3SJ620 5% axial, Digikey #P62W-3BK-ND
 100R 3W metal oxide film resistor, Panasonic ERG-3SJ101 5% axial, Digikey #P100W-3BK-ND
 120R 3W metal oxide film resistor, Panasonic ERG-3SJ121 5% axial, Digikey #P120W-3BK-ND
 200R 3W metal oxide film resistor, Panasonic ERG-3SJ201 5% axial, Digikey #P200W-3BK-ND



Optional snubber and clamp circuits

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