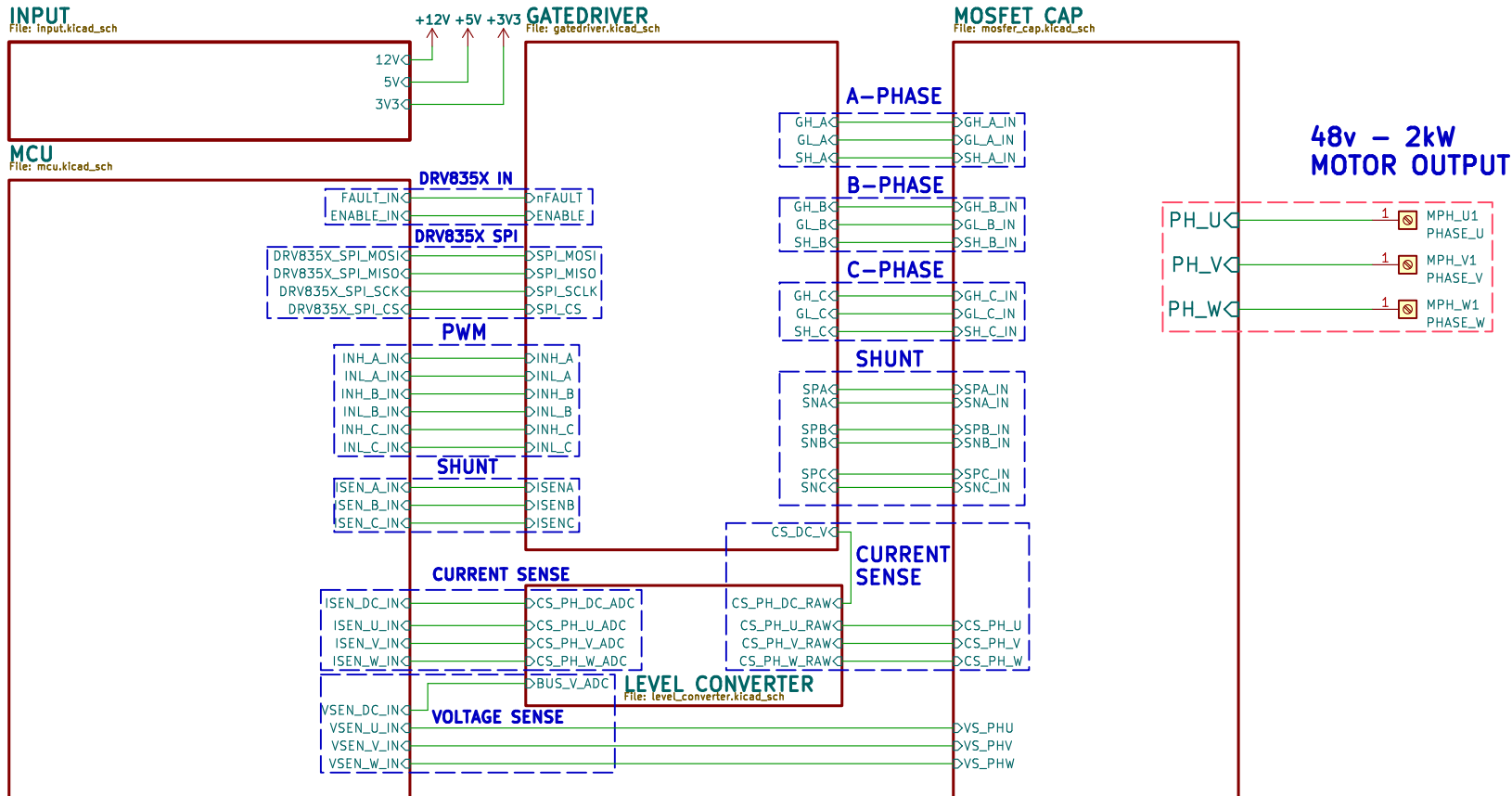
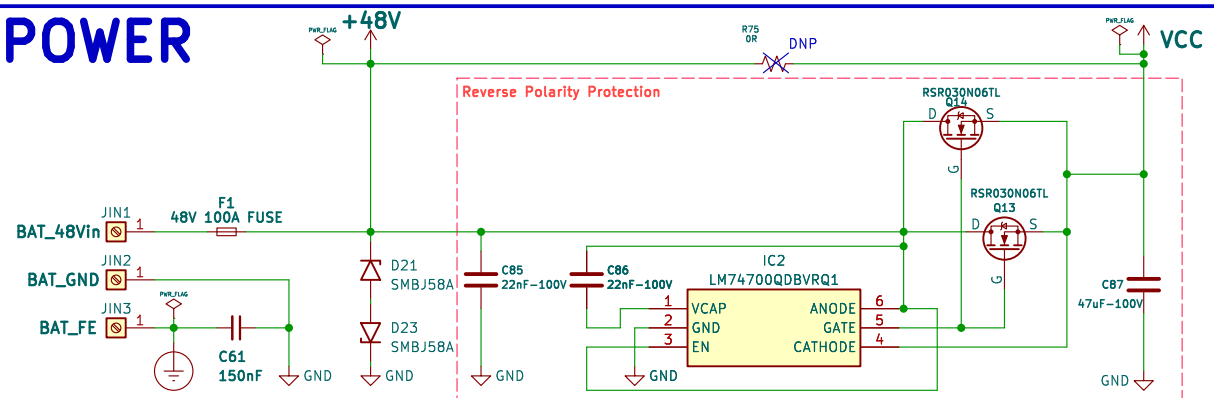


48V MOTOR DRIVER SYSTEM BLOCK DIAGRAM

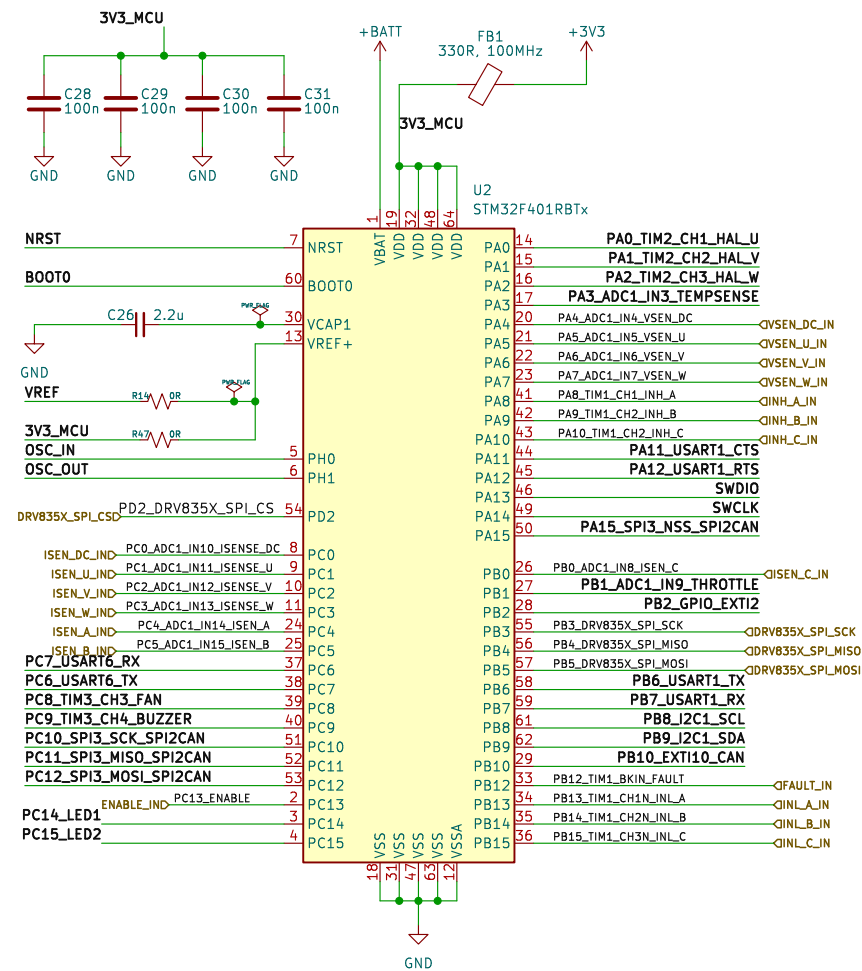


POWER

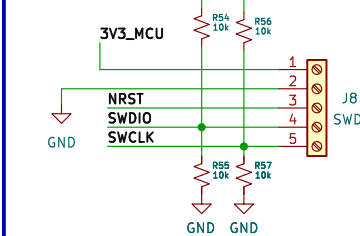


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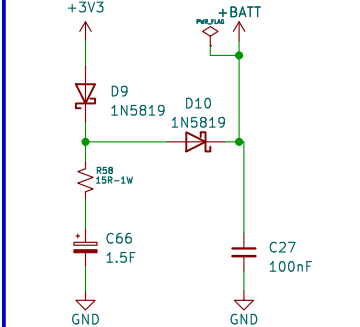
STM32F401RBTx



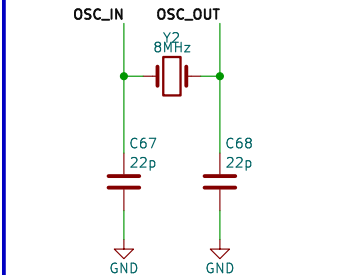
SWDIO



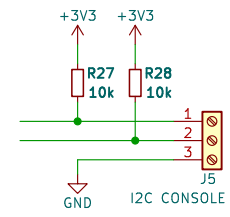
SUPER CAP



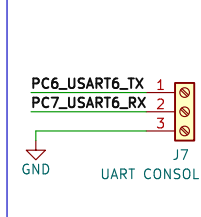
XTAL-OSC



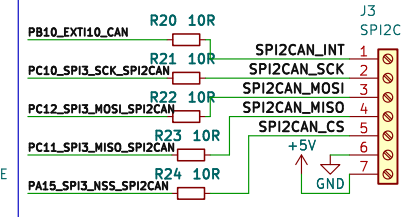
I2C CONSOLE



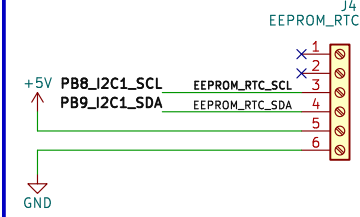
UART6 CONSOLE



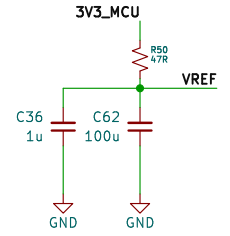
SPI 2 CAN MODULE



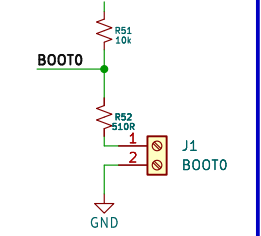
EEPROM - RTC MODULE



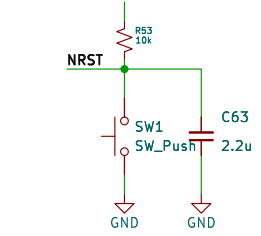
VREF



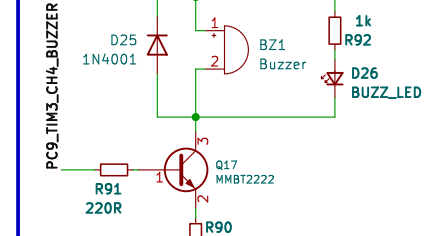
BOOT0



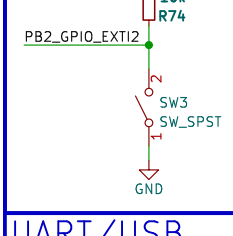
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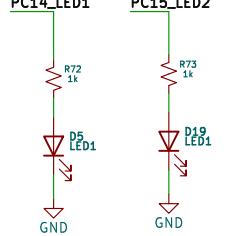
BUZZER



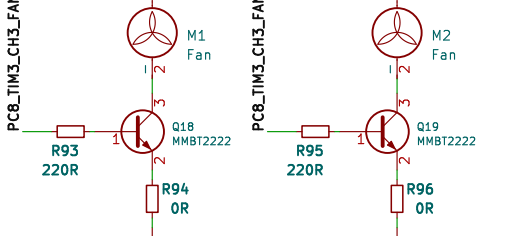
ATTENTION BUTTON IRQ



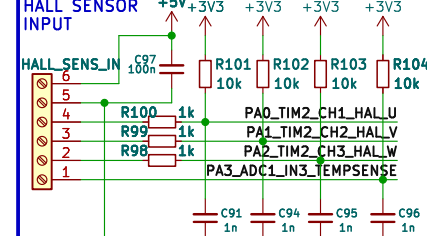
STATUS LED



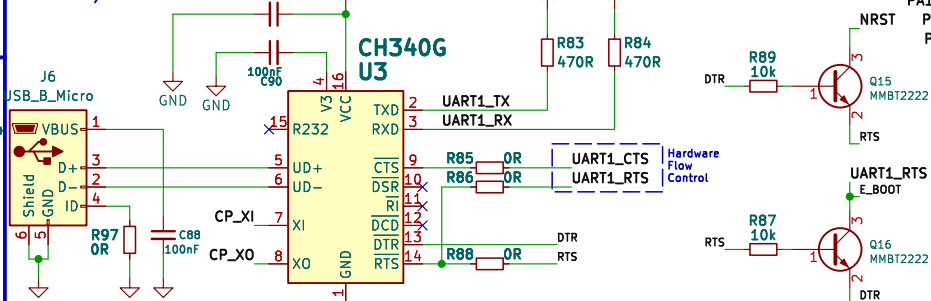
FAN



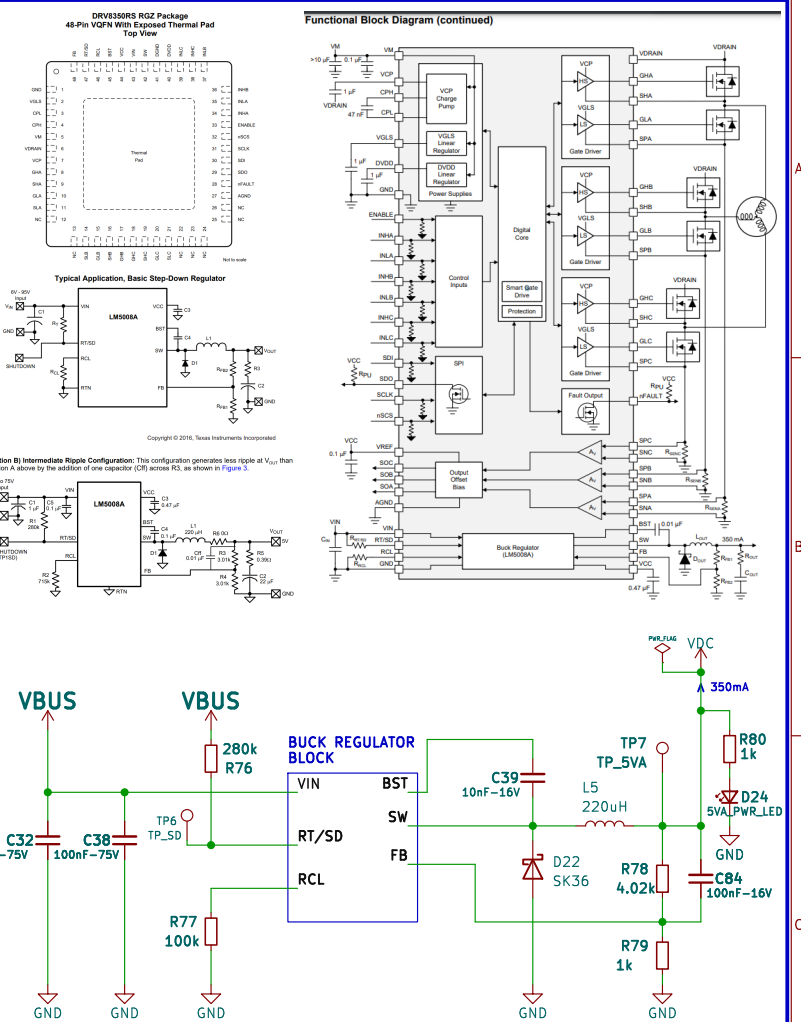
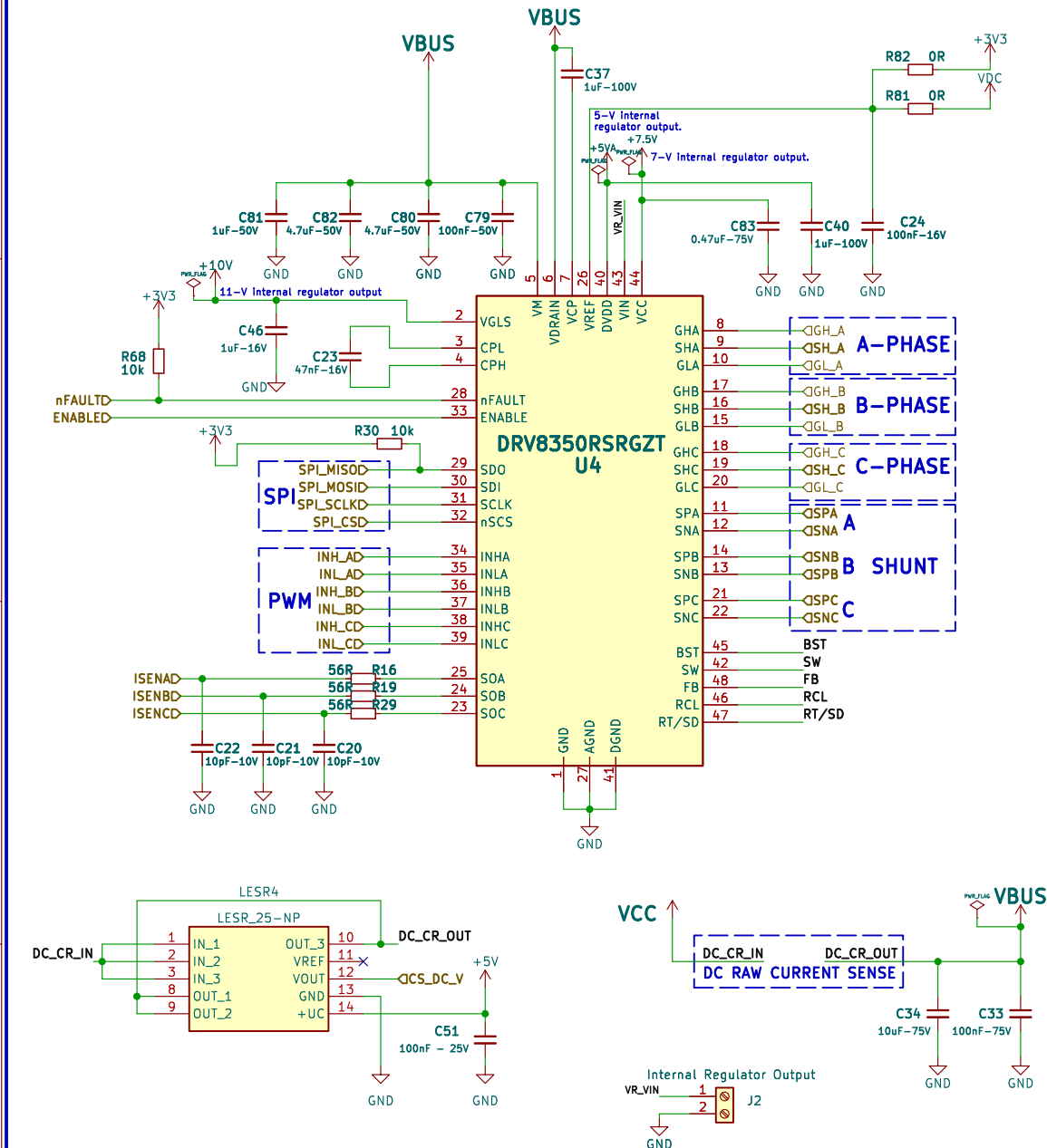
HALL SENSOR INPUT



UART/USB

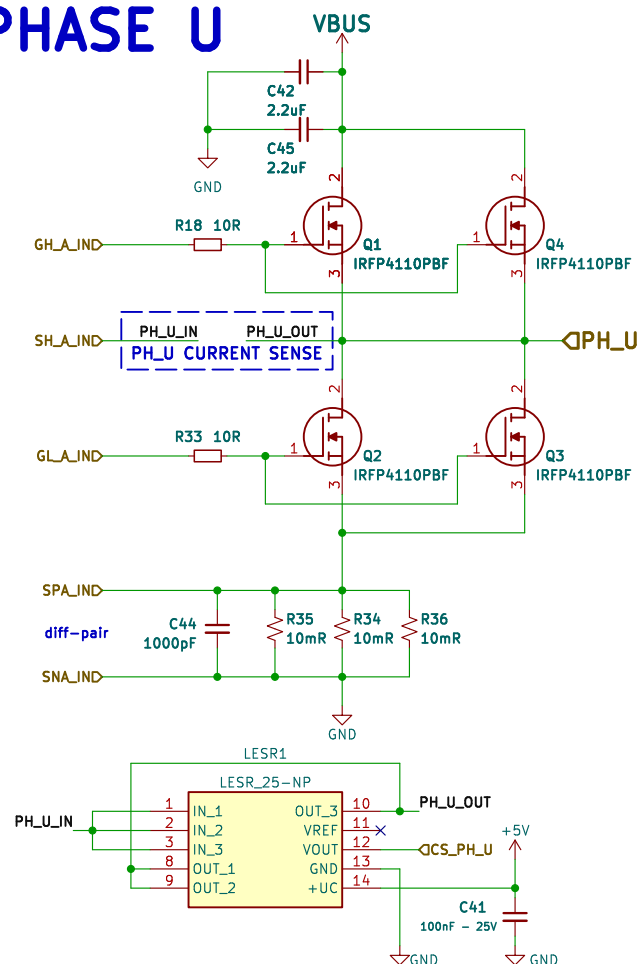


DRV8350 Three-Phase Gate Driver With Dual-Current Shunt Amplifiers

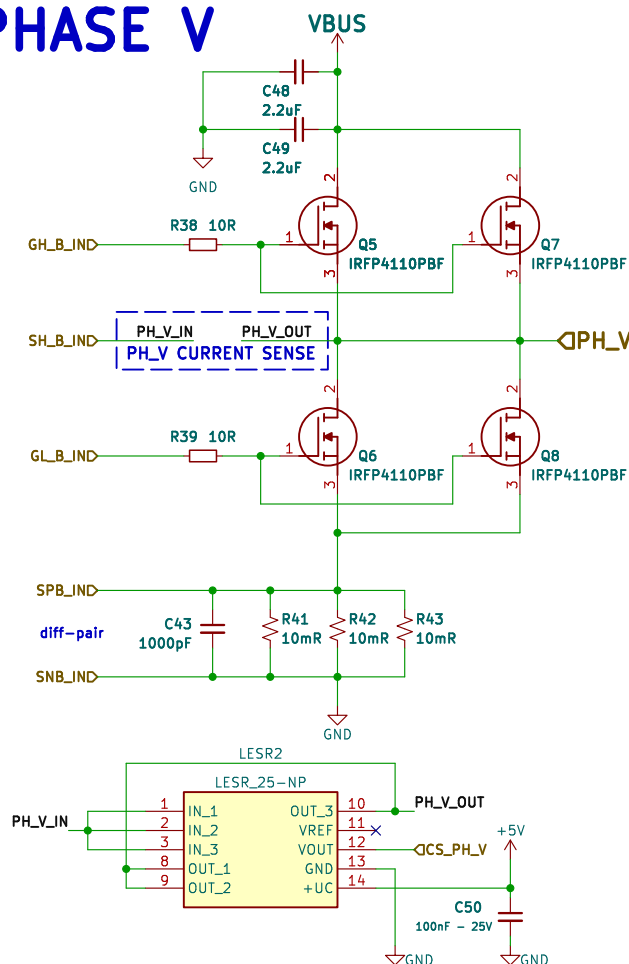


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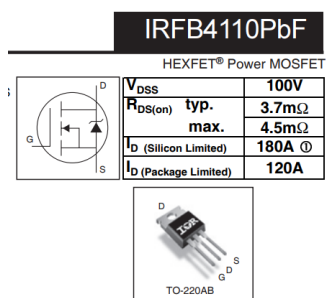
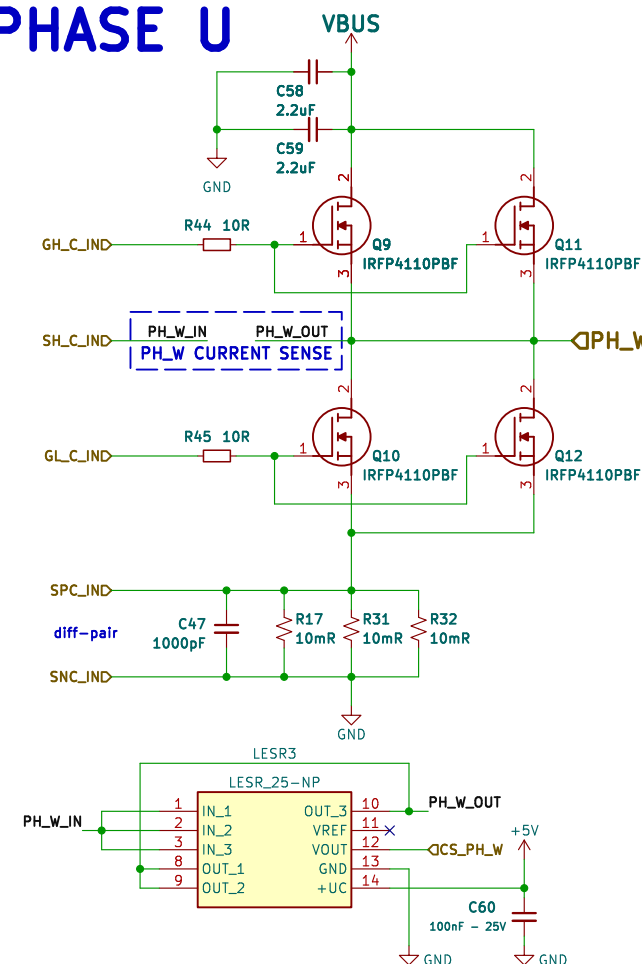
PHASE U



PHASE V



PHASE U

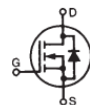


TrenchT2™ HiperFET™ Power MOSFET

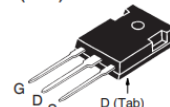
N-Channel Enhancement Mode
Avalanche Rated
Fast Intrinsic Diode

IXFH400N075T2 IXFT400N075T2

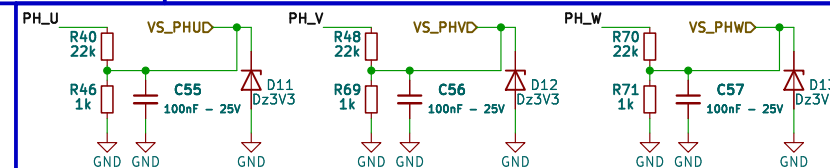
$V_{DS} = 75V$
 $I_{D25} = 400A$
 $R_{DS(on)} \leq 2.3m\Omega$



TO-247 (IXFH)



Symbol	Test Conditions	Maximum Ratings
V_{DS}	$T_j = 25^\circ C$ to $175^\circ C$	75 V
V_{DSR}	$T_j = 25^\circ C$ to $175^\circ C$, $R_{GS} = 1M\Omega$	75 V



Sheet: /MOSFET CAP/
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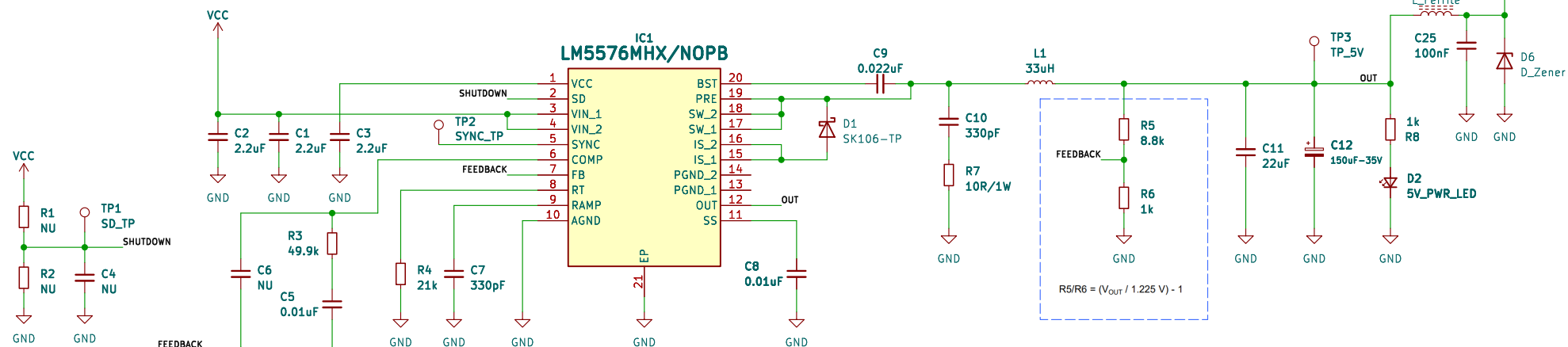
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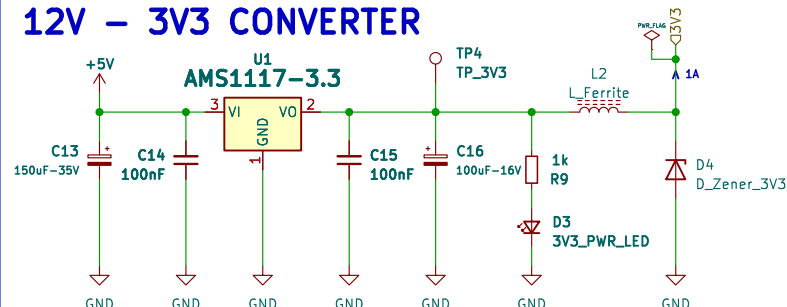
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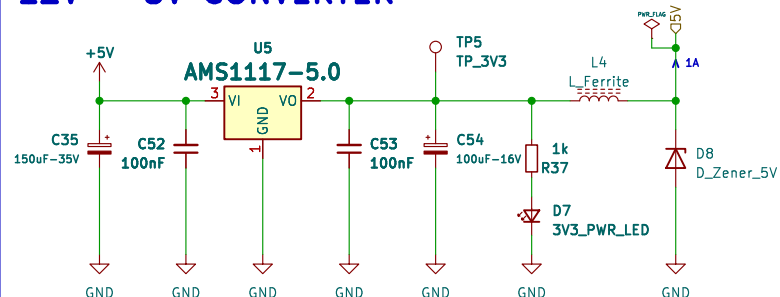
48V – 12V AUTOMOTIVE DUMP CONVERTER



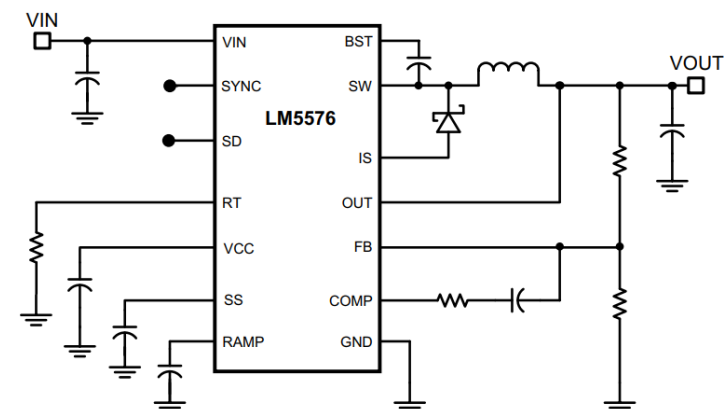
12V – 3V3 CONVERTER



12V – 5V CONVERTER



Simplified Application Schematic



Sheet: /INPUT/
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