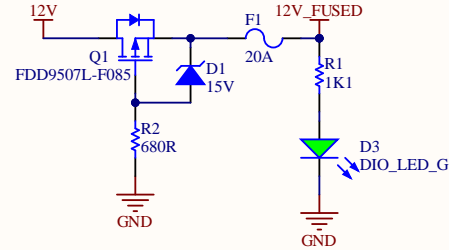


## Reverse Polarity Protection



MCU IO current limit resistors

- $R = (V_{io} - V_{cc}) / I_{max} = (3.3V - 12V) / (-25mA) = 348 \text{ Ohm}$  as a minimum
- Use 680 Ohm for safety and BOM optimization

Current Sense output RC filter

- values from the chip application note

Current Sense output voltage resistor

- current range
- + Saturation condition: 4.6mA
- + Fault condition: 730mA (not configured yet)
- $R = 3.3V / 4.6mA = 717.39 \text{ Ohm}$
- Use 680 Ohm so that max voltage = 3.128 V

Reverse polarity protection

- From data sheet

## Bypass Capacitors

