

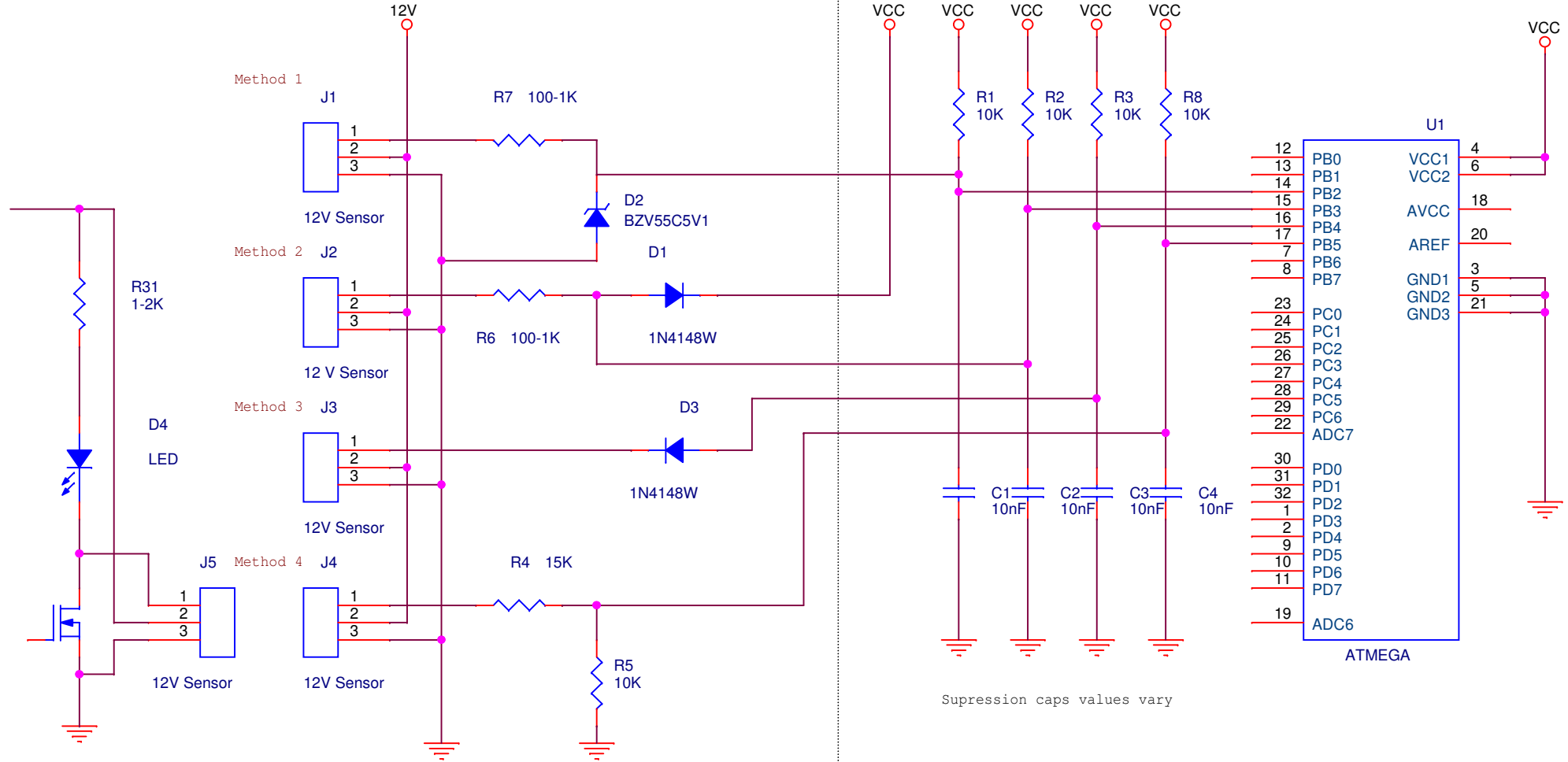
TYPICAL SENSOR

NPN / NFET

EXTERNAL TO PCB

INTERNAL TO PCB

Pull up resistors Values vary



- Method 1 Functional but led within sensor may not go out
- Method 2 Functional but led within sensor may not go out uses 5V on PCB as overvoltage trap
- Method 3 Functional uses LED path as pull up with diode block
- Method 4 Marginal as this method dosent take into account the internal resistor on the board and can have limited success although the ratio is good signaling a level '0'

Title		
Sensor connections		
Size A	Document Number <Doc>	Rev 1
Date:	Thursday, December 15, 2016	Sheet 1 of 1