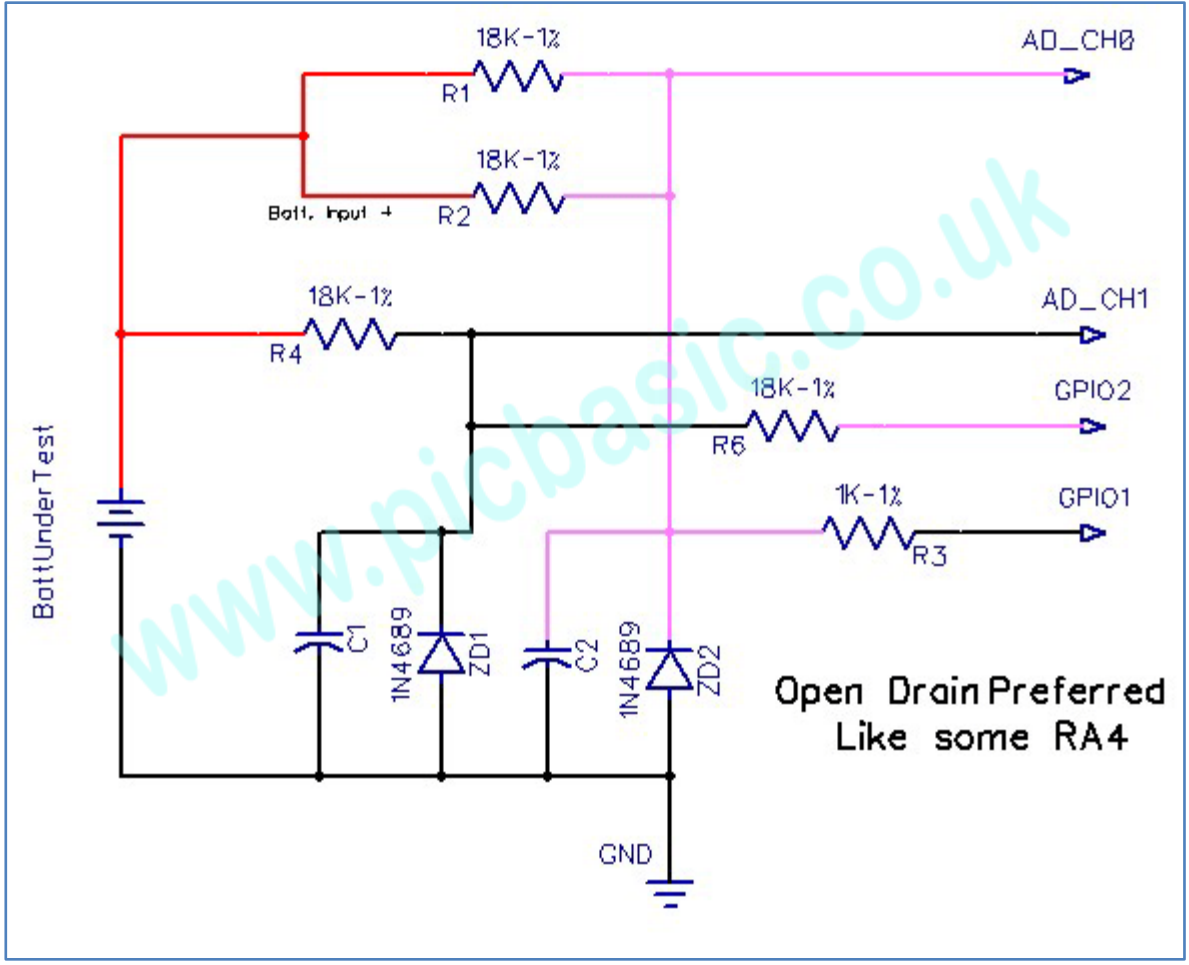

1. Make GPIO1 as Input (Floating) Open Drain Preferred
2. Make GPIO2 as Input or Output = Logic 0 (Low)
3. Measure AD Channel -0 (averaging recommended)
    a. If ADC VALUE = MAX (1023 for 10 bit) THEN
        - Make GPIO1 as output = 0 (Logic Low) '// Switches on 1:10 input attenuator
        - Repeat measurements with ADC0 keeping mind range. Actual result = result X 10
    b. IF ADC Value = 0 OR less than MIN Then (Even a flat battery measures something)
        - Make GPIO2 as Output = 1 (Logic 1)
        - Measure AD Channel 1
            1. IF ADC < VDD/2 then input is negative (give some margin though)
            2. IF ADC = VDD then input is floating (Cross check with ADC 0)
            3. If ADC = VDD/2 then input is shorted to ground