Dear Sir

I need to protect ADC input. ADC supply tied to 230 V 50 Hz supply. Short circuit may be in the Rload, then protection need for one period of 230 V supply.

Please, see attach. R3 and R5 is voltage divider, which decreases signal at the ADC input, then R5 must be much greater than R3. Can I install R4 and R5 30 k or more? As I understand, to install big value for R4 and R5 undesirable? Analog input leakage current is 1 microA max, then current via R4, R5 must be at least 10 microA. If 5V/(30+30)k=83 microA, then I can set R4 = R5 = 51k?

TIA

Sinserely

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