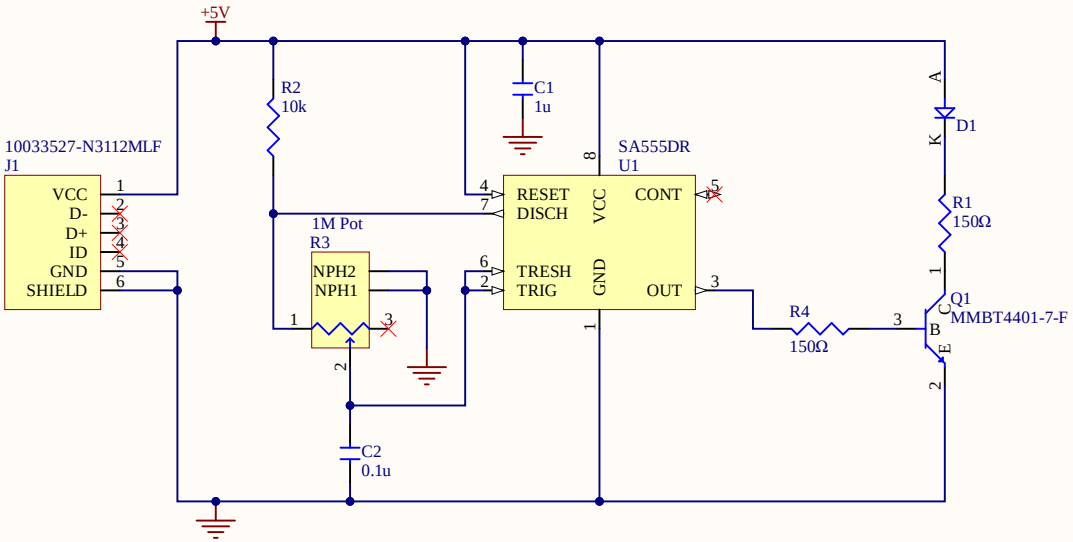

Th = 0.693*(Ra+Rb)*C
Tl = 0.693*(Rb)*C
PERIOD = Th + Tl
PERIODmin = 0.693(10kΩ+2*0Ω)*1uF= 0.000693s = 1443Hz
PERIODmax = 0.693(10kΩ+2*1000KΩ)*1uF= 0.139s = 7.2Hz

BJT CALCULATIONS
Ib = (VCC-Vbe)/Rout = (5V-0.7V)/150Ω = 28.7mA
VCE=VCEsat
IC = (VCC-Vdiode-Vsat)/R1 = (5V-2-0.4)/150Ω = 17.3mA

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