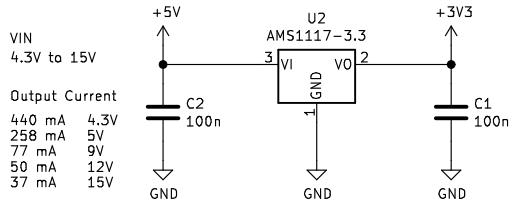
Supply



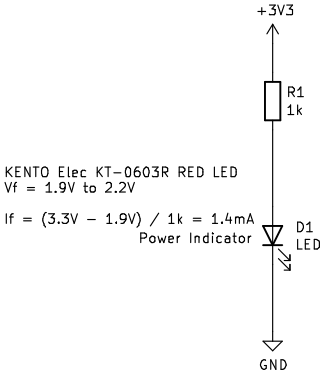
Pessimistic Temperature Calculation:

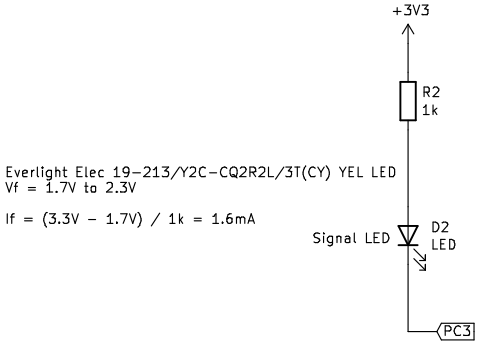
SOT-223-3 Thermal Resistance = 90°C/W
Maximum Temperature Rise = 40°C

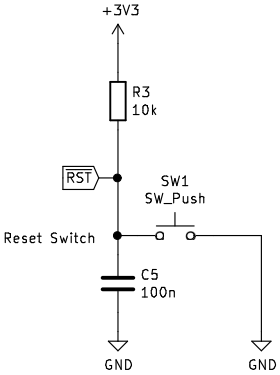
Maximum Power Dissipation:
40°C / 90°CW = 0.44W

Solving for Iout:
Iout = 0.44W / (Vout - 3.3V)

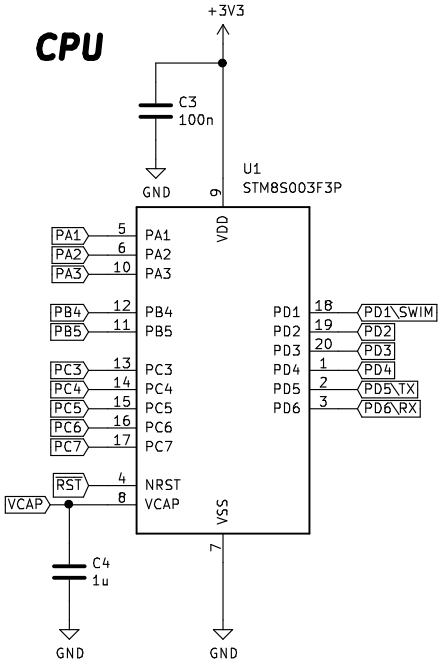
Interface



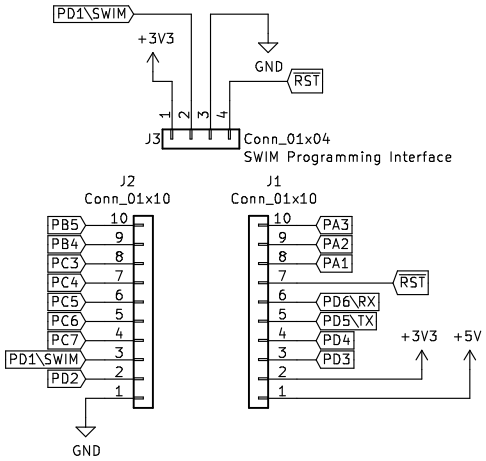




CPU



Connectors



V2.0 Transferred from EasyEDA to KiCAD
V1.0 First Issue (EasyEDA)
Aardwolf Digital

Sheet: /
File: STM8S003F3.sch

Title: STM8S003F3 Breakout

Size: A4	Date: 2020-08-20	**Rev: V2.0**
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1		Id: 1/1