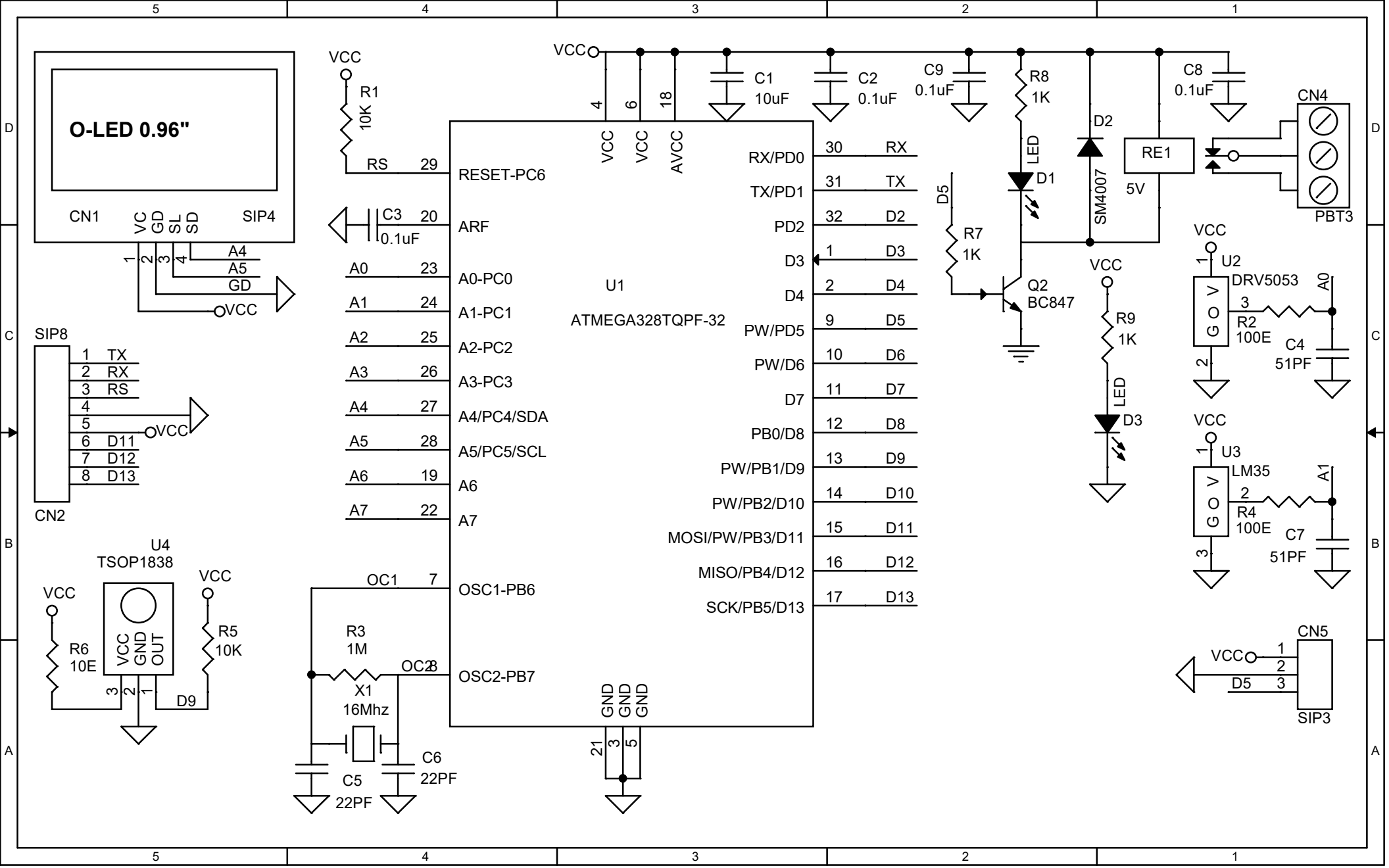
O-LED 0.96"
CN1
VC
GD
SL
SD
SIP4
A4
A5
GD
VCC
SIP8
1 TX
2 RX
3 RS
4
5
6 D11
7 D12
8 D13
CN2
U4
TSOP1838
VCC
GND
OUT
R6
10E
R5
10K
D9
R1
10K
RS 29
C3 20
0.1uF
ARF
A0 23
A1 24
A2 25
A3 26
A4 27
A5 28
A6 19
A7 22
OC1 7
R3
1M
OC2 8
X1
16Mhz
C5
22PF
C6
22PF
RESET-PC6
A0-PC0
A1-PC1
A2-PC2
A3-PC3
A4/PC4/SDA
A5/PC5/SCL
A6
A7
OSC1-PB6
OSC2-PB7
U1
ATMEGA328TQPF-32
VCC
4
6
18
VCC
VCC
AVCC
C1
10uF
C2
0.1uF
GND
GND
GND
21
3
5
RX/PD0 30 RX
TX/PD1 31 TX
PD2 32 D2
D3 1 D3
D4 2 D4
PW/PD5 9 D5
PW/D6 10 D6
D7 11 D7
PB0/D8 12 D8
PW/PB1/D9 13 D9
PW/PB2/D10 14 D10
MOSI/PW/PB3/D11 15 D11
MISO/PB4/D12 16 D12
SCK/PB5/D13 17 D13
C9
0.1uF
R8
1K
LED
D1
D5
R7
1K
Q2
BC847
D2
SM4007
RE1
5V
C8
0.1uF
CN4
PBT3
VCC
R9
1K
LED
D3
VCC
U2
DRV5053
G O V
3
R2
100E
C4
51PF
A0
VCC
U3
LM35
G O V
2
R4
100E
C7
51PF
A1
CN5
VCC
1
2
D5 3
SIP3