9.0 TO 12.0 VDC

J1
5.5x2.5mm

D1
SBR05U20SN-7

U1
LM2940SX-5.0/NOPB

In 1
Out 3
Com 2

5V

C1
0.47uF

C2
0.1

C3
22uF

5V

C4
0.1

5V

C5
0.1

LCD1
NHD-C0216AZ-FN-GBW

1 GND
2 V0
3 VDD
4 RS
5 R/W
6 E
7 D0
8 D1
9 D2
10 D3
11 D4
12 D5
13 D6
14 D7

16x2 LCD DISPLAY
ASCII CHARACTERS

U2
PIC16F627A

VDD 14

17 RA0/AN0   INT/RB0 6
18 RA1/AN1   RX/RB1 7
1 RA2/AN2   TX/RB2 8
2 RA3/AN3   CCP1/RB3 9
3 RA4/T0CKI   PGM/RB4 10
15 RA6/OSC2   RB5 11
16 RA7/OSC1   PGC/RB6 12
4 RA5/MCLRn   PGD/RB7 13

VSS 5

5V

R1
4.7K

R2   470

SW2
1   4
2   3
B3S-1002 BY OMZ

5V

R3
10K

R4   470

SW1
1   4
2   3
B3S-1002 BY OMZ

C6
0.1

DEMO PROJECT

PIC16F627A TO ASCII LCD

CADER

Rev 1.0
5/17/2014

Page 1