9.0 TO 12.0 VDC

D1
SBR05U20SN-7

U1
LM2940SX-5.0/NOPB

5V

J1
5.5x2.5mm

In   Out
Com

1   3
   2

C1
0.47uF

C2
0.1

C3
22uF

5V   5V

C4
0.1

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

5V

R1
4.7K

SW2
1   4
2   3
B3S-1002 BY OMZ

R2   470

U2
PIC16F627A
14
VDD

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

R3
10K

SW1
1   4
2   3
B3S-1002 BY OMZ

C6
0.1

R4   470

DEMO PROJECT

PIC16F627A TO ASCII LCD

DAN1138

Rev 1.0
5/17/2014

Page 1