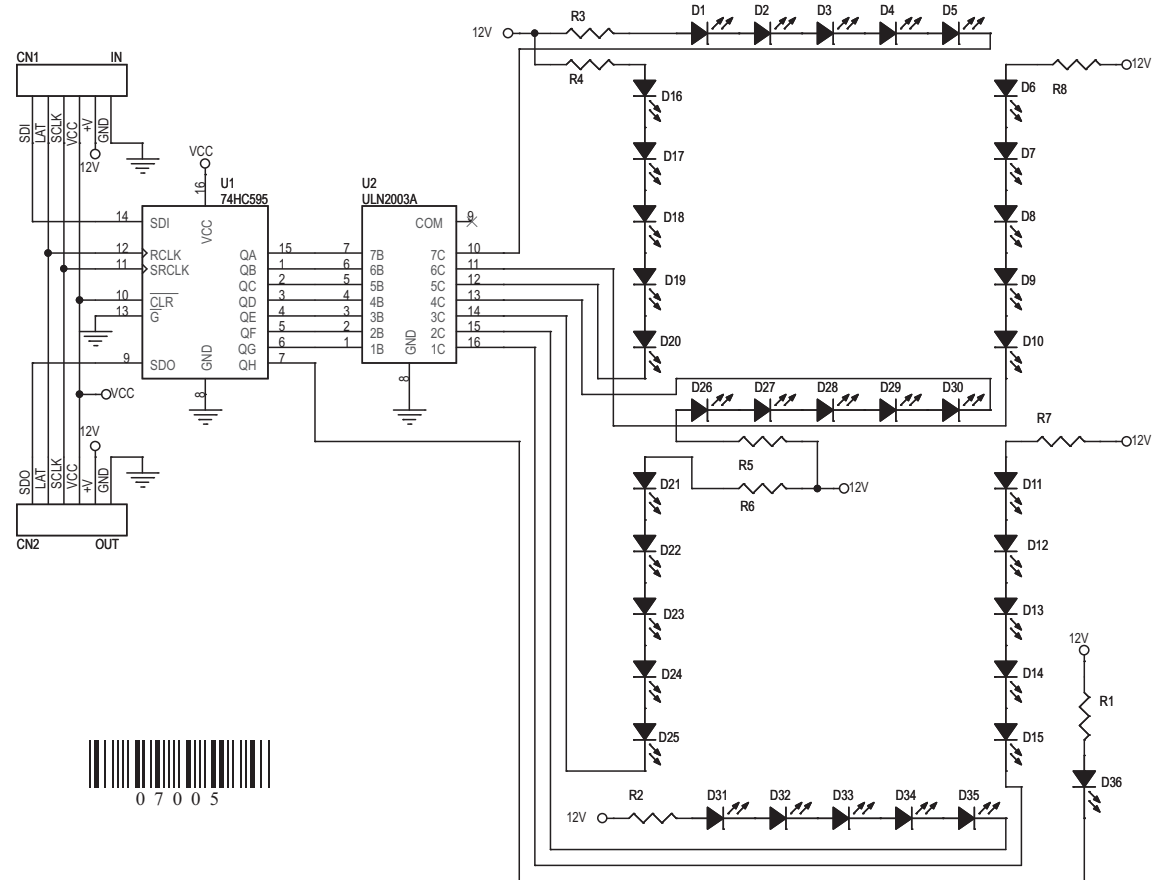
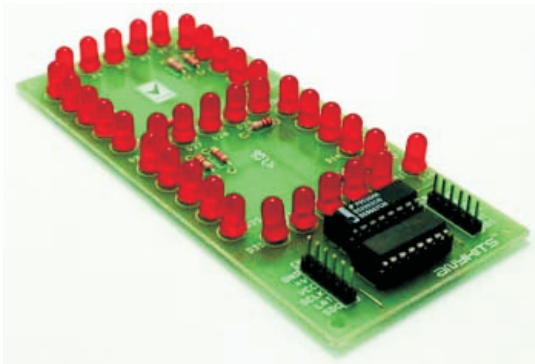


SINGLE DIGIT 7 SEGMENT LED BASED DISPLAY USING 74HC595 WITH SPI INTERFACE

Single Digit Big Display module using 74HC595 IC project will display large size 7 segment single digit number. 3.5inch height, which can be visible over large distance. More digit can be connected serially to each other easily trough connector.

This circuit is a single digit seven segment big display using a set of 5 LEDs per segment and a shift register for easy control by micro-controller input. Each of the LEDs used in this project are 5mm high glow type.

- A ULN2003 IC helps sink higher current flowing through the LEDs to grounds.
 - Resistor R1 to R8 are current limiting Resistors for the LEDs connected in series.
 - CN1 Connector is Data In connector
 - CN2 Connector is optional Data Out Connector if you need to stack more than 1 single display board in series
 - +V CN1 & CN2 should be connected to higher voltage to drive the LEDs
 - VCC Should be connected to 5V DC. This supply can be source from host controller
-
- Each Segment made up of 5LEDs
 - Series Current limiting resistor provide on each segment
 - Series latched type display using SPI protocol
 - Separate Header Connector for connection input/output
 - Four Mounting holes 3.2MM each
 - PCB Dimension's 125MM X 58MM



SR.	QTY.	REF.	DESCRIPTION
1	2	CN1,CN2	6 PIN BERG/RELIMATE CONNECTOR
2	36	D1 TO D36	RED LED
3	7	R2,R3,R4,R5,R6,R7,R8	220E
4	1	R1	1K
5	1	U1	74HC595
6	1	U2	ULN2003A
7	2	SOCKET	16 PIN DIP IC SOCKET
8	5	JUMPER	WIRE JUMPER

