

■ Features

- 0.56 inch Single digit 7-segment LED board with shift register 74HC595 module for serial signal connection..
- It can display with 3 signals of SDI, SCK, LATCH (SPI signal such as Arduino). If it need more digits, it can be controlled 3 by connecting SDO to the adjacent SDI. Since the display is latched (memorized) by the 74HC595, the microcomputer can concentrate on other tasks until changing the display next time.
- The 74HC595 device contains an 8-bit serial-in, parallel-out shift register that feeds an 8-bit D-type storage register. The storage register has parallel 3-state outputs. Separate clocks are provided for both the shift and storage registers. The shift register has a direct overriding clear (SRCLR) input, serial (SER) input, and serial output for cascading. When the output-enable (OE) input is high, the outputs are in the high-impedance state. Both the shift register clock (SRCLK) and storage register clock (RCLK) are positive-edge triggered. If both clocks are connected together, the shift register always is one clock pulse ahead of the storage register.

■ Applications

- Arduino kit

■ Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value	Unit
Operating Supply Range(DC)	V_i	6	V
Input Current(DC)	I_i	45	mA
Power Dissipation	P_t	270	mW
Operating Temperature	T_{opr}	-30 ~ +70	°C
Storage Temperature	T_{stg}	-40~ +85	°C
Lead Soldering Temperature(1.6mm from seating plane)	T_{sol}	260°C/5sec	°C

■ Electrical -Optical Characteristics (Ta=25°C)

Part Number	Color		Input Voltage(DC)			Input Current	Iv(mcd)			λD(nm)		
			$V_i(V)$			$I_f(MA)$	Min.	Typ.	Max.	Min.	Typ.	Max.
			Min.	Typ.	Max.	Max.						
OSL10564-74HC595-W	White	W	3	-	6	45	-	65	-	X=0.27 Y=0.28		
OSL10564-74HC595-B	Blue	B	3	-	6	45	-	50	-	460	470	475
OSL10564-74HC595-G	Pure Green	G	3	-	6	45	-	200	-	515	520	530
OSL10564-74HC595-YG	Yellow Green	YG	3	-	6	45	-	20	-	565	571	575
OSL10564-74HC595-Y	Yellow	Y	3	-	6	45	-	60	-	585	590	595
OSL10564-74HC595-R	Red	R	3	-	6	45	-	26	-	625	630	650
OSL10564-74HC595-RA	High Luminance Red	RA	3	-	6	45	-	100	-	620	625	630

*1 Tolerance of measurements of chromaticity coordinates is $\pm 10\%$

*2 Tolerance of measurements of dominant wavelength is $\pm 1nm$

*3 Tolerance of measurements of luminous intensity is $\pm 15\%$

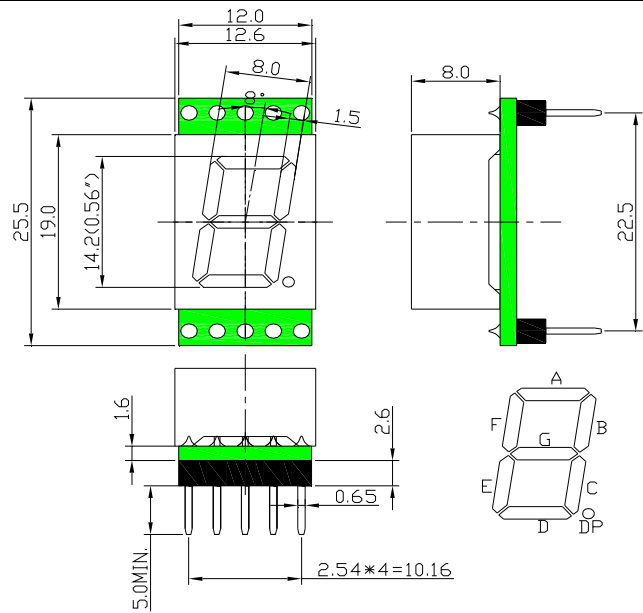
*4 Tolerance of measurements of forward voltage is $\pm 0.1V$

■ **Package Dimensions and Pin Function**

OSL10564-74HC595-X

Note:

- 1, Unit : mm(Tolerance:±0.25mm unless otherwise noted)
- 2, The slope angle of any PIN may be±5.0°Max



3, Circuit diagram

