WINSTAR Display

OLED SPECIFICATION

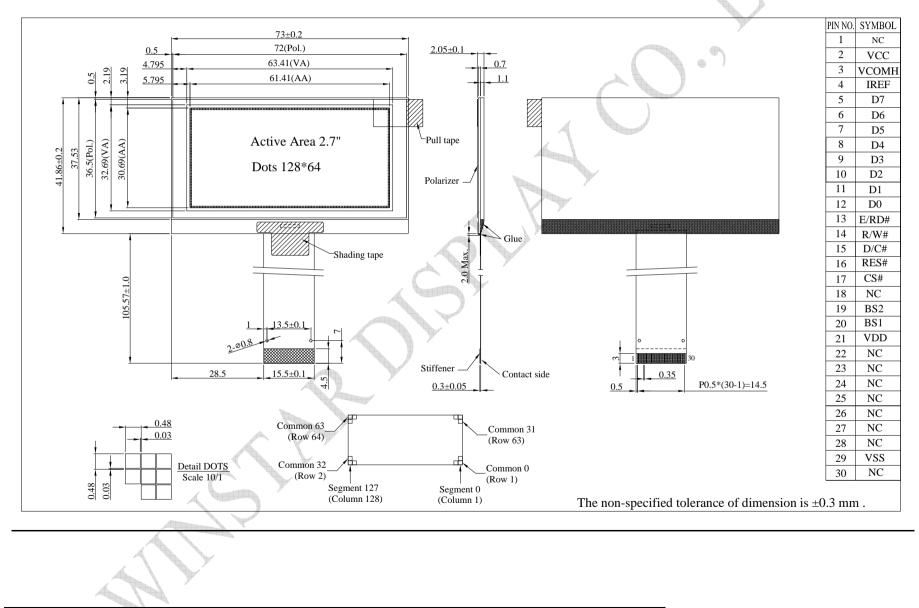
Model No:

WEO012864Q

General Specification

Item	Dimension	Unit	
Dot Matrix	128 x 64	_	\bigwedge
Module dimension	73.0 × 41.86 × 2.05	mm	
Active Area	61.41 × 30.69	mm	
Pixel Size	0.45 × 0.45	mm ,	
Pixel Pitch	0.48 × 0.48	mm	
Display Mode	Passive Matrix		
Display Color	Monochrome		
Drive Duty	1/64 Duty		
IC	SSD1309		
Interface	I2C, 4-Wire SPI ,6800, 808	0	
Size	2.7 inch		

Contour Drawing & Block Diagram



WINSTAR

Interface Pin Function

No.	Symbol	Function				
1	NC	No connection				
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.				
3	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.				
4	IREF	This pin is the segment output current reference pin. IREF is supplied externally.				
5~12	D7~D0	These pins are bi-directional data bus connecting to the MCU data bus. Unused pins are recommended to tie LOW. When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC. When I2C mode is selected, D2, D1 should be tied together and serve as SDAout, SDAin in application and D0 is the serial clock input, SCL.				
13	E/RD#	This pin is MCU interface input. When 6800 interface mode is selected, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled HIGH and the chip is selected. When 8080 interface mode is selected, this pin receives the Read (RD#) signal. Read operation is initiated when this pin is pulled LOW and the chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS.				
14	R/W#	This pin is read / write control input pin connecting to the MCU interface. When 6800 interface mode is selected, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH and write mode when LOW. When 8080 interface mode is selected, this pin will be the Write (WR#) input. Data write operation is initiated when this pin is pulled LOW and the chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS.				
15	D/C#	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register. In I2C mode, this pin acts as SA0 for slave address selection.				

		This will be used at all				
16	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed.				
	IXEO//	Keep this pin pull HIGH during normal operation.				
		This pin is the chip select input connecting to the MCU.				
17	CS#	The chip is enabled for MCU communication only when CS# is pulled				
		LOW (active LOW).	LOW (active LOW).			
18	NC	No connection	No connection			
					t appropriate logic setting as	
		described in the foll	owing tabl	le. BS2 and	d BS1 are pin select	
19	BS2		BS1	BS2		
		I2C	1	0		
		4-wire Serial	0	0		
		8-bit 68XX Parallel	0	1		
		8-bit 80XX Parallel	1	1		
20	BS1	Note				
		(1) 0 is connected to	n VSS	A		
		(2) 1 is connected to		4		
21	VDD	Power supply pin for core logic operation				
22~28	NC	No connection			4	
29	VSS	Ground.	4	X,		
30	NC	No connection				

Absolute Maximum Ratings

Parameter	Symbol	Min	Мах	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Supply Voltage for Display	VCC	0	15	V
Operating Temperature	ТОР	-40	+80	°C
Storage Temperature	TSTG	-40	+80	°C

1

Electrical Characteristics

ltem	Symbol	Condition	Min	Тур	Max	Unit	
Supply Voltage for Logic	VDD		2.8	3.0	3.3	V	
Supply Voltage for Display	VCC	Z V	12.5	13	13.5	V	
High Level Input	VIH		0.8×VDD	—	—	V	
Low Level Input	VIL	~~- Y	—	_	0.2×VDD	V	
High Level Output	VOH	L Y	0.9×VDD	_	—	V	
Low Level Output	VOL		_	_	0.1×VDD	V	
50% Check Board operating Current		VCC =13.0V	20	22	24	mA	