WINSTAR Display

OLED SPECIFICATION

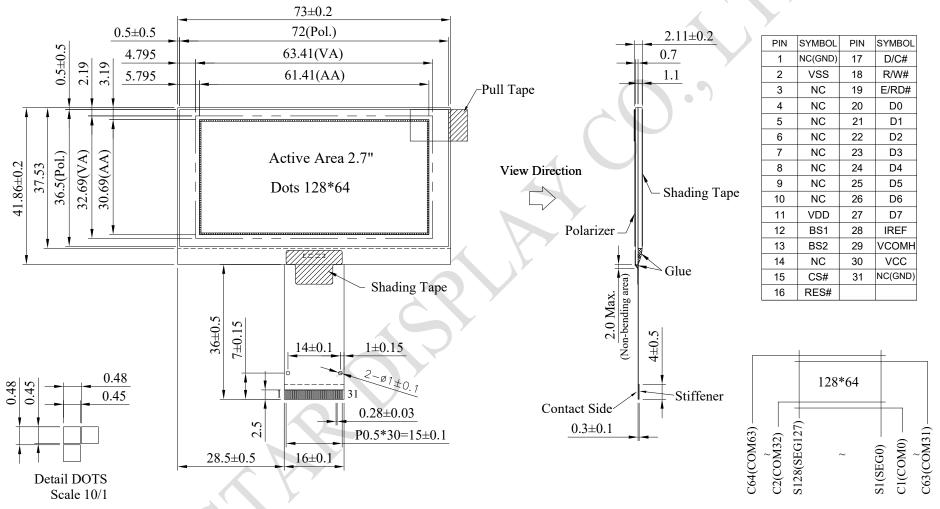
Model No:

WEO012864K

General Specification

Item	Dimension	Unit		
Dot Matrix	128 x 64	_		
Module dimension	73.0 × 41.86 × 2.11	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			

Contour Drawing & Block Diagram



The non-specified tolerance of dimension is ± 0.3 mm.

Interface Pin Function

No.	Symbol	Function			
1	NC(GND)	No connection			
2	VSS	Ground.			
3-10	NC	No connection			
11	VDD	Power supply pin for core logic operation			
12	BS1	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2, BS1 and BS0 are pin select BS1 BS2 I 2 C 1 0 1 1 1 1 1 1 1			
13	BS2	4-wire Serial			
14	NC	No connection			
15	CS#	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW).			
16	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.			
17	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. When 3-wire serial interface is selected, this pin must be connected to VSS. 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			
18	R/W#	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. 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.
20~27	D0~D7	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.
28	IREF	This pin is the segment output current reference pin. IREF is supplied externally.
29	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.
30	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.
31	NC(GND)	No connection

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Supply Voltage for Display	VCC	0	15	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD		2.8	3.0	3.3	V
Supply Voltage for Display	VCC	(C)	12	13	14	V
High Level Input	VIH	\\\-\-	0.8×VDD	_	_	V
Low Level Input	VIL) -	_	_	0.2×VDD	V
High Level Output	VOH	_	0.9×VDD	_	_	V
Low Level Output	VOL	_	_	_	0.1×VDD	V
50% Check Board operating Current		VCC =13.0V	_	22	33	mA