

## WINSTAR Display

# **OLED SPECIFICATION**

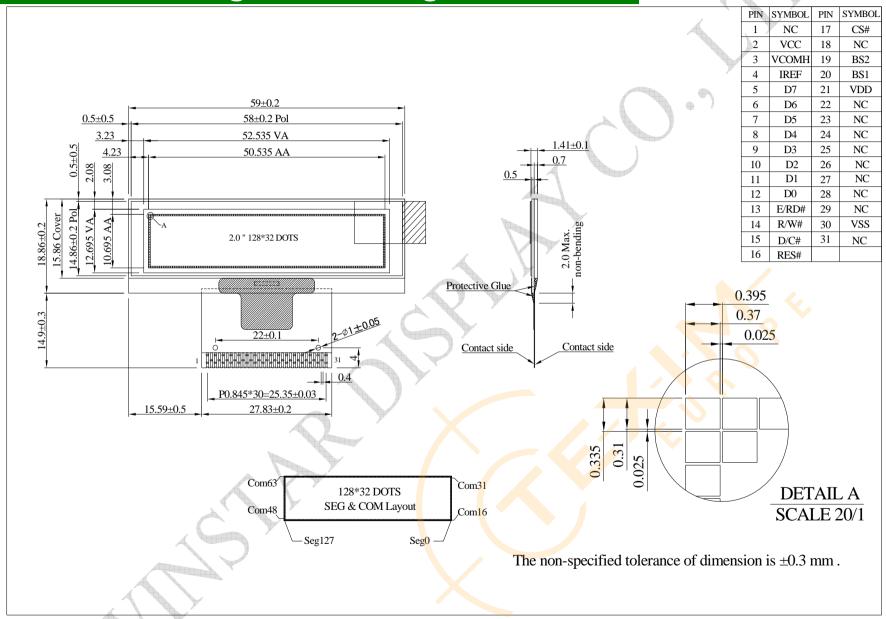
Model No:

WEO012832K

## **General Specification**

Item	Dimension	Unit			
Dot Matrix	128 x 32	Dots			
Module dimension	59.0 × 18.86 × 1.41	mm			
Active Area	50.535 × 10.695	mm			
Pixel Size	0.370 × 0.310	mm			
Pixel Pitch	$0.395 \times 0.335$	mm			
Display Mode	Passive Matrix				
Display Color	Monochrome				
Interface	8Bits 68xx 80xx/ 4-Wire SPI/ I2C				
Drive Duty	1/32 Duty				
IC	SSD1315				
Size	2.0 inch				

### **Contour Drawing & Block Diagram**



### **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.  When charge pump is enabled, a capacitor should be connected between pin and VSS.					
3	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.					
4.	IREF	This is segment output current reference pin. When external IREF is used, a resistor should be connected between this pin and VSS to maintain the IREF current at 30uA.					
5	D7						
6	D6	Those are 9 hit hi directional data has to be connected to the					
7	D5	These are 8-bit bi-directional data bus to be connected to the microprocessor's data bus. When serial interface mode is selected, D0 will be					
8	D4	the serial clock input: SCLK; D1 will be the serial data input: SDIN.					
9	D3	When I2C mode is selected, D2, D1 should be tied together and serve as					
10	D2	SDAout, SDAin in application and D0 is the serial clock input, SCL.					
11	D1	DE A COCA, CE A ANT AN APPRICACION AND ECONOMIC COCA MIPAC, CCE.					
12	D0						
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 is read / write control input pin connecting to the MCU interface. When interfacing to a 6800-series microprocessor, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH (i.e. connect to VDD) 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.					
16	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin HIGH (i.e. connect to VDD) during normal operation.					
17	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).					

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18	NC	No connection					
19	BS2	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2, BS1 are pin select					
		BS[2:1]	Interface				
		00	4 line SPI				
		01	I2C				
20	BS1	11	8-bit 8080 parallel				
		10	8-bit 6800 parallel				
		Note (1) 0 is connec (2) 1 is connec					
21	VDD	Power supply pin for core logic operation. This is a voltage supply pin. It must be connected to external source.					
22	NC						
23	NC			1			
24	NC						
25	NC	No connection					
26	NC						
27	NC						
28 29	NC NC	_		<b>\</b>			
30	VSS	Ground nin, It r	must be connected to	external ground			
31	NC	Ground pin. It must be connected to external ground.  No connection					
		1. 1. 2					

### **Absolute Maximum Ratings**

Parameter	Symbol	Min	Тур.	Max	Unit
Supply Voltage for Logic	VDD	-0.3	-	4	V
Supply Voltage for Display	VCC	0	-	18	V
Operating Temperature	TOP	-40	-	+80	°C
Storage Temperature	TSTG	-40	-	+85	°C

### **Electrical Characteristics**

### DC Electrical Characteristics

Unless otherwise specified, VSS = 0V, VDD = 2.8 - 3.3V (Ta = 25°C)

Items		Symbol	Min.	Тур.	Max.	Unit
Supply	Logic	VDD	2.8	3.0	3.3	V
Voltage	Operating	VCC	7.5	8.0	8.5	V
Input	High Voltage	V <sub>IH</sub>	0.8 x V <sub>DD</sub>	-	VDD	V
Voltage	Low Voltage	V <sub>IL</sub>	0		0.2 x VDD	٧
Output	High Voltage	$V_{OH}$	0.9x V <sub>DD</sub>	-	VDD	V
Voltage	Low Voltage	$V_{OL}$	0	-	0.1 x VDD	V

Symbol	Parameter	Min.	Тур.	Max.	Unit	Condition
ICC	VCC Supply Current	-	11	22	mA	VDD=3V , VCC=8.0, Display 50% ON

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