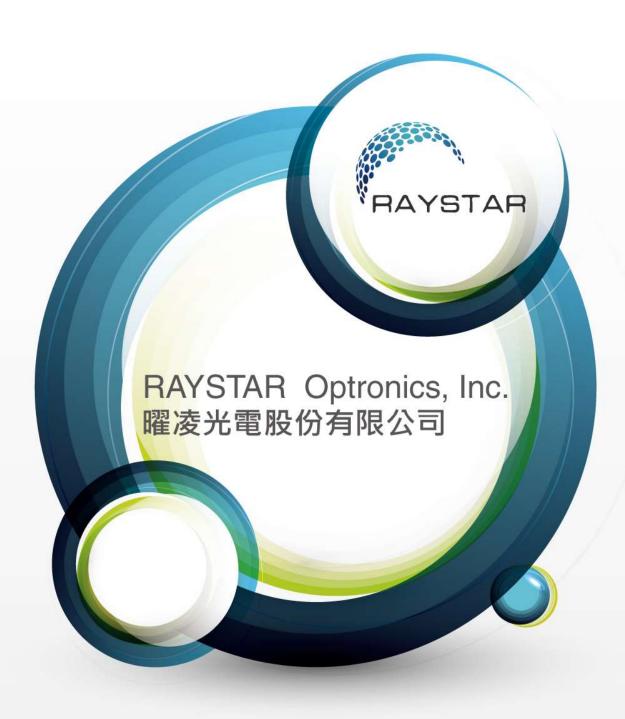
OLED DISPLAY SPECIFICATION





曜凌光電股份有限公司 Raystar Optronics, Inc.

T: +886-4-2565-0761 | F: +886-4-2565-0760

salescontact@raystar-optronics.com | www.raystar-optronics.com

REX012832K

General Specification

■ Module dimension: 59.0 × 18.86 × 1.41 mm

Active area: 50.535 ×10.695 mm

■ Dot Matrix: 128 x 32

Pixel size: 0.370 × 0.310 mm
 Pixel pitch: 0.395 × 0.335 mm
 Display Mode: Passive Matrix

■ Duty: 1/32 Duty

■ Display Color: Monochrome

■ IC: SSD1315

■ Interface: 8Bits 68xx 80xx/ SPI/ I2C

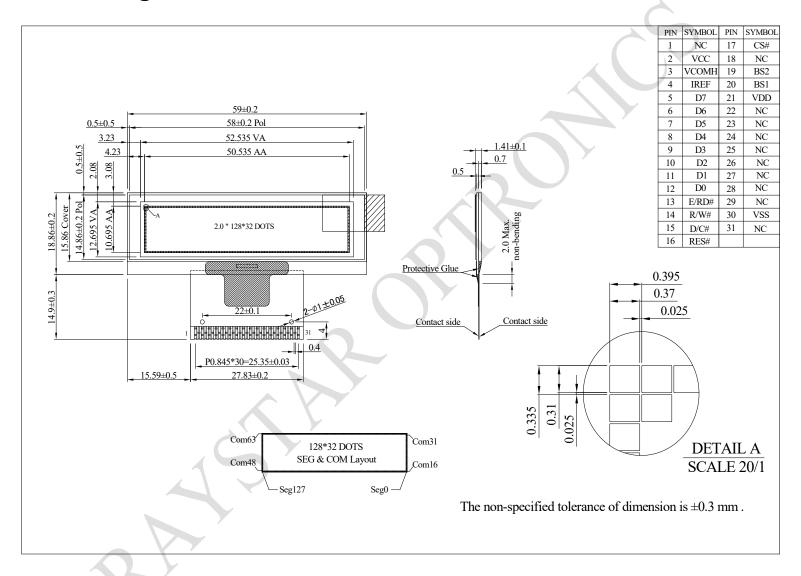
■ Size: 2.0 inch

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 this pin and VSS.				
3	VСОМН	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	These are 0 hit hi directional data has to be exprested to the				
7	D5	These are 8-bit bi-directional data bus to be connected to the				
8	D4	microprocessor's data bus. When serial interface mode is selected, D0 will be 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	be Addit, Ob Airi in application and bo is the serial clock input, COL.				
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. 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.				

This pin is reset signal input. When the pin is pulled LOW, initialization of							
16	RES#	the chip is executed. Keep this pin HIGH (i.e. connect to VDD) 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).					
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 connected to VSS					
		(2) 1 is connected to VDD					
21	VDD	Power supply pin for core logic operation.					
21		This is a voltage supply pin. It must be connected to external source.					
22	NC			y			
23	NC	1					
24	NC						
25	NC	No connection					
26	NC						
27	NC						
28	NC		Y				
29	NC						
30	VSS	Ground pin. It must be connected to external ground.					
31	NC	No connection					

Contour Drawing



Absolute Maximum Ratings

Parameter	Symbol	Min	Тур.	Max	Unit
Supply Voltage for Logic	VDD	-0.3	-	4	٧
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

Items		Symbol	Min	Тур.	Max	Unit
Supply Voltage	Logic	VDD	2.8	3.0	3.3	V
	Operating	VCC	7.5	8.0	8.5	V
Input	High Voltage	Vih	0.8xVDD	-	VDD	V
Voltage	Low Voltage	VIL	0	1	0.2xVDD	V
Output	High Voltage	V _{ОН}	0.9xVDD	-	VDD	V
Voltage	Low Voltage	V _{OL}	0	-	0.1xVDD	V