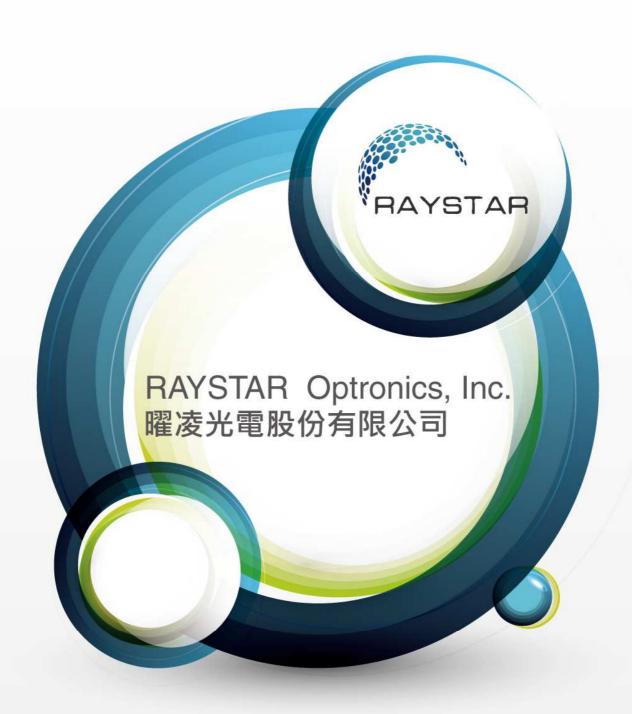
OLED DISPLAY SPECIFICATION





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SPECIFICATION

Model No: REA002002A

General Specification

The Features is described as follow:

■ Module dimension: 92.3 x 23.3 x 5.96 Max. mm

■ Active area: 73.52 x 11.52 mm

■ Number of Characters: 20 characters x 2 Lines

Dot size: 0.62 x 0.67 mmDot pitch: 0.65 x 0.70 mm

Character size: 3.22 x 5.57 mmCharacter pitch: 3.70 x 5.95 mm

■ Duty: 1/16 Duty

Display Mode: Passive Matrix

■ Display Color: OLED , Monochrome

■ IC: SSD1311

■ Interface: 6800,8080,SPI,I2C

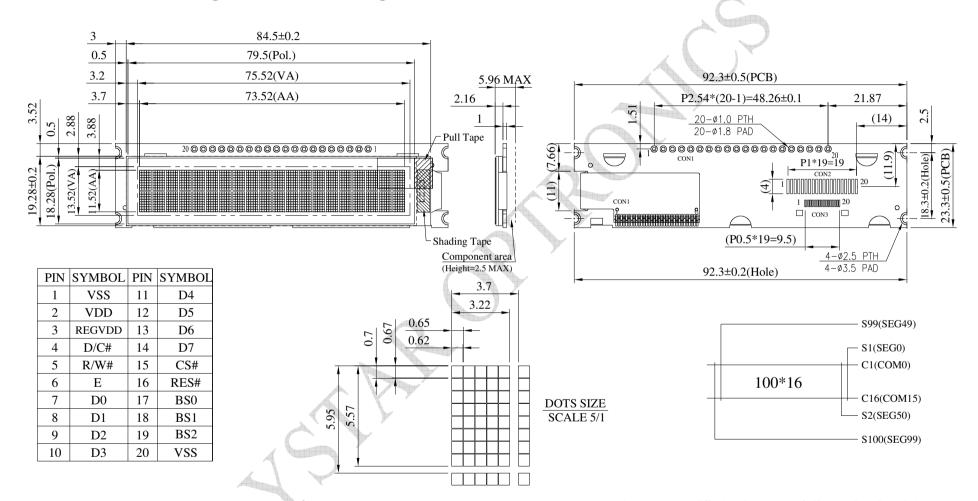
■ Size: 2.93 inch

Interface Pin Function

Pin No.	Symbol	Pin Type	Description			
1	VSS	Р	Ground pin. It must be connected to external ground.			
2	VDD	Р	Power supply for core logic operation. A capacitor should be connected between VDD and VSS under all circumstances.			
3	REGVDD	I	Internal VDD regulator selection pin It must be connected to external ground.			
4	D/C#	I	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 serial interface is selected, this pin must be connected to VSS.			
5	R/W#	I	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.			
6	E		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.			

7	D0		These pins are bi-directional data bus connecting to the MCU			
8	D1		data bus.			
9	D2		Unused pins are recommended to tie LOW.			
10	D3	-	When serial interface mode is selected, D0 will be the serial clock			
11	D4	I/O	input: SCLK; D1 will be the serial data input: SID and D2 will be			
12	D5	-	the serial data output: SOD.			
	D6		When I2C mode is selected, D2, D1 should be tied together and			
13	_	-	serve as SDAout, SDAin in application and D0 is the serial clock			
14	D7		input, SCL.			
15	CS#	I	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). In I2C mode, this pin must be connected to VSS.			
16	RES#	I	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	BS0		MCU bus interface selection pins. Select appropriate logic setting			
18	BS1		as described in the following table. BS2, BS1 and BS0 are pin select.			
		-	Bus Interface selection			
19	BS2		BS[2:0] Interface			
20	VSS	P	Ground pin. It must be connected to external ground.			

Contour Drawing & Block Diagram



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

Absolute Maximum Ratings

Item	Symbol	Min	Max	Unit
Supply Voltage For Logic	VDD-VSS	-0.3	3.6	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TST	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage For Logic	VDD-VSS	3	3.1	3.3	3.5	V
Input High Volt.	VIH		0.8xVDD	_	_	V
Input Low Volt.	VIL		_	_	0.2xVDD	V
Output High Volt.	VOH	IOH=-0.5mA	0.9xVDD	_	_	V
Output Low Volt.	VOL	IOL=0.5mA	_	_	0.1xVDD	V
50% Check Board operating Current	IDD	VDD=3.3V	_	50	75	mA