

SPECIFICATION

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OLED SPECIFICATION

Model No:

REX009616A

General Specification

The Features is described as follow:

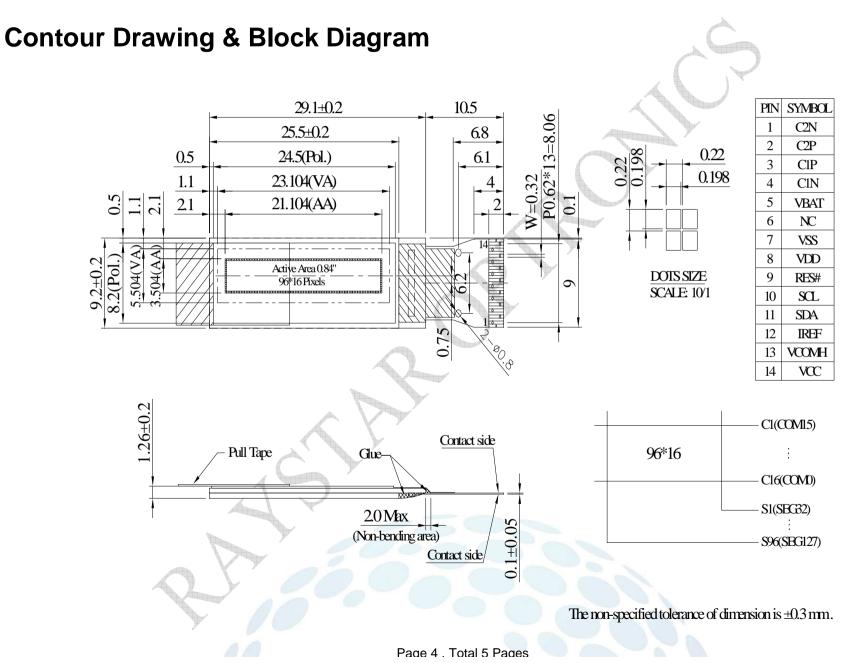
- Module dimension: 29.1× 9.2 ×1.26mm
- Active area: 21.104×3.504 mm
- Dot Matrix: 96×16
- Pixel size: 0.198 × 0.198 mm
- Pixel pitch: 0.220 × 0.220 mm
- Display Mode: Passive Matrix
- Duty: 1/16 Duty
- Display Color: Monochrome
- IC: SSD1306
- Interface: I2C
- Size: 0.84 inch



Interface Pin Function

No.	Symbol	Function						
1	C2N	Desitive Terreinel of the Chines Investige Conseiter Negetive Terreined of the						
2	C2P	Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the						
3	C1P	Flying Boost Capacitor The charge-pump capacitors are required between						
4	C1N	the terminals. They must be floated when the converter is not used.						
5		Power Supply for DC/DC Converter Circuit This is the power supply pin for the internal buffer of the DC/DC voltage converter. It must be connected to external source when the converter is used. It should be connected to VDD when the converter is not used.						
6	NC	No connection						
7	VSS	Ground of Logic Circuit This is a ground pin. It acts as a reference for the logic pins. It must be connected to external ground.						
8	VDD	Power Supply for Logic This is a voltage supply pin. It must be connected to external source.						
9	RES#	Power Reset for Controller and Driver This pin is reset signal input. When the pin is low, initialization of the chip is executed.						
10	SCL	I2C mode is selected, D2, D1 should be tied together and serve as SDAout,						
11	SDA	SDAin in application and D0 is the serial clock input, SCL.						
12	IREF	<i>Current Reference for Brightness Adjustment</i> This pin is segment current reference pin. A resistor should be connected between this pin and VSS. Set the current lower than 12.5µA.						
13		Voltage Output High Level for COM Signal This pin is the input pin for the voltage output high level for COM signals. A capacitor should be connected between this pin and VSS.						
14		Power Supply for OEL Panel This is the most positive voltage supply pin of the chip. A stabilization capacitor should be connected between this pin and VSS when the converter is used. It must be connected to external source when the converter is not used.						







Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit						
Supply Voltage for Logic	VDD	0	4	V						
Supply Voltage for Display	VCC	0	16	V						
Operating Temperature	TOP	-40	+70	°C						
Storage Temperature	TSTG	-40	+85	O°						

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 (Supplied Externally)	VCC		7.0	7.5	7.8	V
Charge Pump Regulator Supply Voltage	VBAT	2	3.3	_	4.2	V
Charge Pump Output Voltage for Display (Generated by Internal DC/DC)	Charge Pump VCC	_	7.0	7.5	7.8	V
Input High Volt.	VIH	20	0.8×VDD	6	VDD	V
Input Low Volt.	VIL	6	0	E	0.2×VDD	V
Output High Volt.	VOH	-	0.9×VDD	P _Q	VDD	V
Output Low Volt.	VOL		0	_	0.1×VDD	V
50% check Board operating Current (VCC Supplied Externally)	ICC	_	—	7	15	mA
50% check Board operating Current (VCC Generated by Internal DC/DC)	IBAT	_	10	15	25	mA