

## **OLED SPECIFICATION**

Model No:

### **REX025664A-ZIF**

### **General Specification**

The Features is described as follow:

■ Module dimension: 60.5 x 19.0 x 1.61 mm

Active area: 51.18 x 12.78 mm

■ Dot Matrix: 256 x 64 Dots

■ Pixel Size: 0.18 x 0.18 mm

■ Pixel Pitch: 0.20 x 0.20 mm

■ Display Mode: Passive Matrix

Duty: 1/64 Duty

Gray Scale: 4 Bits

■ Display Color: Monochrome

■ IC: SSD1362

■ Interface: 3-Wire and 4-Wire SPI, I2C, 6800, 8080

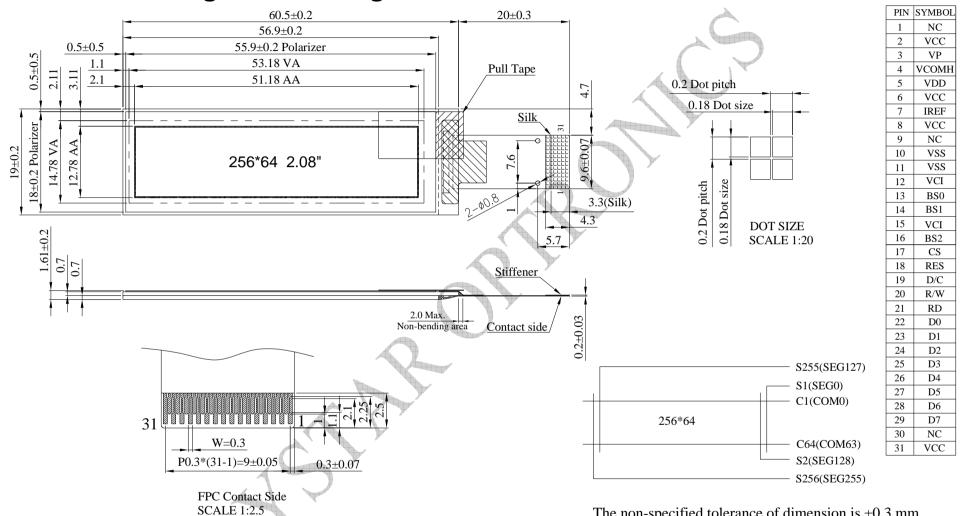
Size: 2.08 inch

## **Interface Pin Function**

No.	Symbol	Function					
1	NC	These pins are reserved. Nothing should be connected to these pins, nor are					
<u>'</u>	110	they connected together.					
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin. It is supplied by external high voltage source.					
3	VP	This pin is the segment pre-charge voltage reference pin. A capacitor should be connected between this pin and VSS. No external power supply is allowed to connect to this pin.					
4	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS. No external power supply is allowed to connect to this pin.					
5	VDD	Power supply for core logic operation.  VDD can be supplied externally (within the range of 1.65V to 2.6V) or regulated internally from VCI when VCI is >2.6V.  A capacitor should be connected between VDD and VSS under all circumstances.					
6	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin. It is supplied by external high voltage source.					
7	IREF	This pin is the segment output current reference pin. When external IREF is used, a resistor should be connected between this pin and VSS to maintain current of around 18.75uA. When internal IREF is used, this pin should be kept NC.					
8	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin. It is supplied by external high voltage source.					
9	NC	These pins are reserved. Nothing should be connected to these pins, nor are they connected together.					
10	VSS	Ground pin. It must be connected to external ground.					
11	VSS /	Ground pin. It must be connected to external ground.					
12	VCI	Low voltage power supply.  VCI must always be equal to or higher than VDD and VDDIO.					
13	B\$0	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2 and BS1, BS0 are pin select.  BS[2:0] Interface					
		000 4 line SPI					
14	BS1	001   3 line SPI   110   8-bit 8080 parallel   100   8-bit 6800 parallel   010   I <sup>2</sup> C					
16	BS2	Note (1) 0 is connected to VSS (2) 1 is connected to VCI					

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15	VCI	Low voltage power supply.				
		VCI must always be equal to or higher than VDD and VDDIO.				
17		This pin is the chip select input connecting to the MCU.				
	cs	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.				
18	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.				
	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				
19		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				
20	R/W	(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.				
	RD	This pin is MCU interface input. When 6800 interface mode is selected, this pin will be used as the Enable				
		signal.				
		Read/write operation is initiated when this pin is pulled HIGH and the chip is				
21		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.				
-00		When serial or I2C interface is selected, this pin must be connected to VSS.				
22 23	D0 D1	These pins are bi-directional data bus connecting to the MCU data bus.				
24	D2	Unused pins are recommended to tie LOW.				
25	D3	When serial interface mode is selected, D0 will be the serial clock input:				
26	D4	SCLK; D1 will be the serial data input: SID.				
26	D5	When I2C mode is selected, D2, D1 should be tied together and serve as				
28	D6	SDA <sub>out</sub> , SDA <sub>in</sub> in application and D0 is the serial clock input, SCL.				
29	D7	22. Jour, 22. All in application and 20 to the contained by the life of the contained by th				
20	NC	These pins are reserved. Nothing should be connected to these pins, nor are				
30		they connected together.				
	VCC	Power supply for panel driving voltage. This is also the most positive power				
31		voltage supply pin. It is supplied by external high voltage source.				
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#### **Contour Drawing & Block Diagram**



# **Absolute Maximum Ratings**

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Operation	VCI	-0.5	5.5	V
Supply Voltage for Logic	VDD	-0.5	2.75	V
Supply Voltage for Display	VCC	-0.5	21	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	VCI		2.8	3.0	3.3	V
Supply Voltage for Display	vcc		11.5	12	12.5	V
Input High Volt.	VIH	_	0.8×VCI	_	VCI	V
Input Low Volt.	VIL	_	VSS	_	0.2×VCI	V
Output High Volt	VOH	_	0.9×VCI	_	VCI	V
Output Low Volt.	VOL	_	VSS	_	0.1×VCI	V
50% Check Board operating Current	ICC	VCC=12V	_	15	30	mA