OLED DISPLAY SPECIFICATION





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REX012864A

General Specification

The Features is described as follow:

■ Module Dimension: 42.04 × 27.22 × 1.41 mm

Active Area: 35.05 × 17.51 mm

■ Dot Matrix: 128 x 64

■ Pixel Size: 0.249 × 0.249 mm

■ Pixel Pitch: 0.274 × 0.274 mm

■ Duty: 1/64 Duty

■ Display Mode: Passive Matrix

Display Color: Monochrome

■ Interface: 6800, 8080, 4-wire SPI, I2C

■ IC: SSD1309

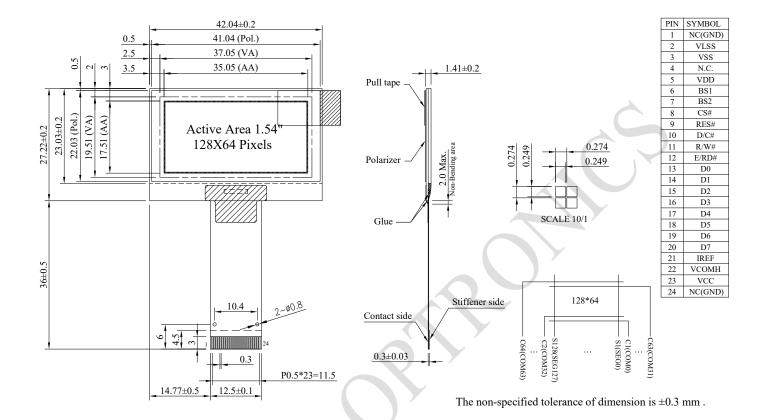
■ Size: 1.54-inch

Interface Pin Function

This is an analog ground pin					
Ground.					
No connection					
Power supply pin for core logic operation					
. Select appropriate logic setting as					
3S2 and BS1 are pin select					
BS2					
0					
0					
1					
1					
onnecting to the MCU.					
nmunication only when CS# is pulled					
alization of the chip is executed.					
ormal operation.					
ol pin connecting to the MCU.					
data at D[7:0] will be interpreted as					
data at D[7:0] will be transferred to a					
In I2C mode, this pin acts as SA0 for slave address selection.					
ut pin connecting to the MCU interface.					
ected, 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.
		This pin is MCU interface input.
	E/RD#	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.
12		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.
	D0~D7	These pins are bi-directional data bus connecting to the MCU data bus.
		Unused pins are recommended to tie LOW.
		When serial interface mode is selected, D0 will be the serial clock input:
13-20		SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC.
		When I2C mode is selected, D2, D1 should be tied together and serve as
	4	SDAout, SDAin in application and D0 is the serial clock input, SCL.
		This pin is the segment output current reference pin.
21	IREF	IREF is supplied externally.
•		COM signal deselected voltage level.
22	VCOMH	A capacitor should be connected between this pin and VSS.
	VCC	Power supply for panel driving voltage. This is also the most positive
23		power voltage supply pin.
24	NC(GND)	No connection

Contour Drawing



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Supply Voltage for Display	VCC	0	17	V
Operating Temperature	TOP	-40	+80	ပိ
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD	0	1.65	3.0	3.3	V
Supply Voltage for Display	VCC	-	7.0	12.5	13.0	V
High Level Input	VIH	_	0.8×VDD	_	_	V
Low Level Input	VIL	_	_	_	0.2×VDD	V
High Level Output	VOH	_	0.9×VDD	_	_	V
Low Level Output	VOL		_	_	0.1×VDD	V
Display 50% Pixel on	ICC	VCC =12.5V	_	16	45	mA