

# OLED DISPLAY SPECIFICATION



RAYSTAR

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## REX012840A

### General Specification

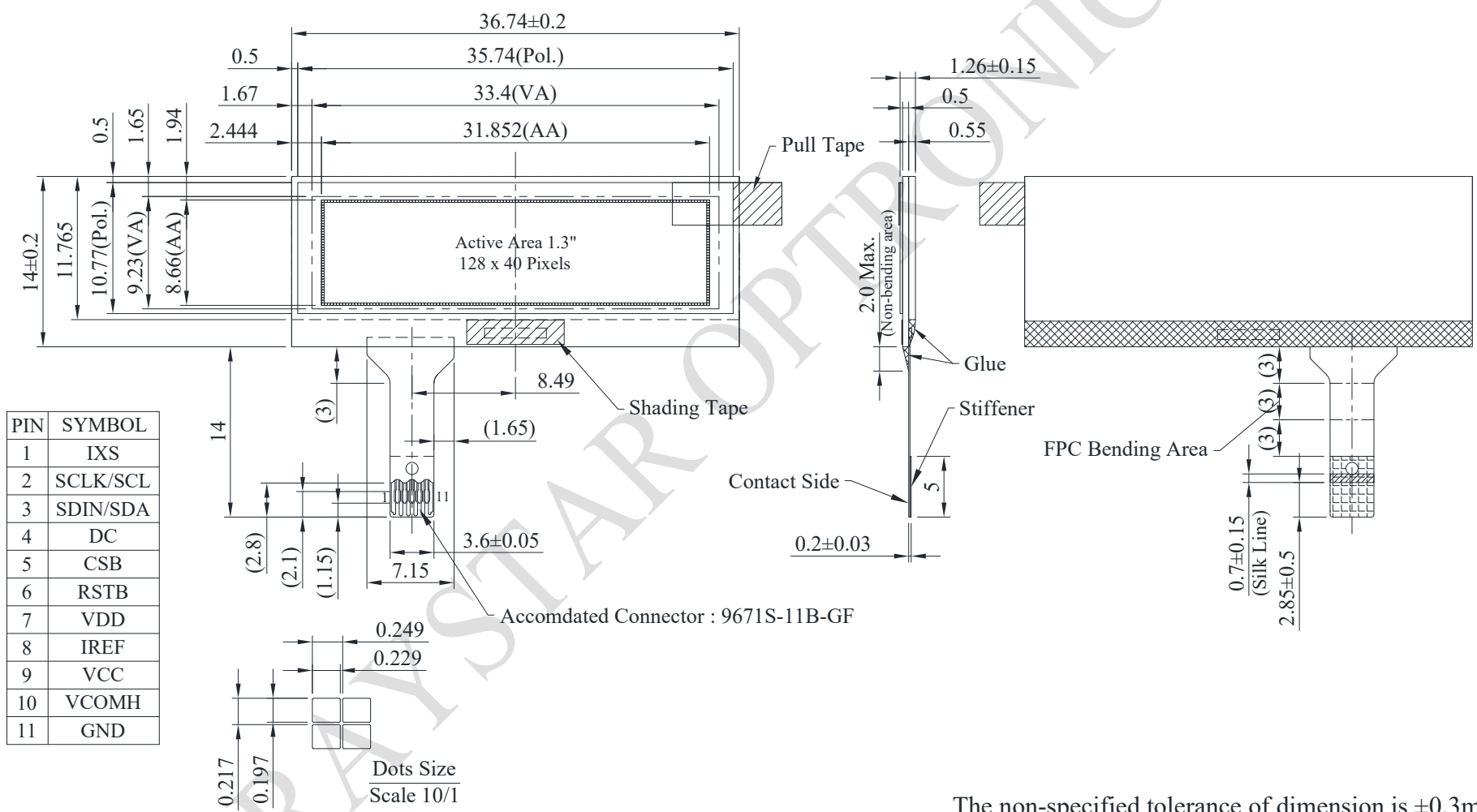
The Features is described as follow:

- Module dimension: 36.74 × 14.00 × 1.26 mm
- Active area: 31.852 × 8.66 mm
- Dot Matrix: 128 x 40
- Dot size: 0.229 × 0.197 mm
- Dot pitch: 0.249 × 0.217 mm
- Duty: 1/40 Duty
- Display Color: Monochrome
- IC: SH1106G-0E
- Interface: SPI/I2C
- Size: 1.3 inch

## Interface Pin Function

No.	Symbol	I/O	Function
1	IXS	I	SPI/I2C Selection.
2	SCLK/ SCL	I	Clock.
3	SDIN/ SDA	I	Data.
4	DC	I	Data/Command Selection.
5	CSB	I	Chip Selection.
6	RSTB	I	Reset.
7	VDD	P	Logic Power Supply.
8	IREF	-	Segment Current Reference.
9	VCC	P	OLED Drive Power Supply.
10	VCOMH	O	This is a pad for the voltage output high level for common signals. A capacitor should be connected between this pad and VSS.
11	GND	P	GND.

# Contour Drawing



PIN	SYMBOL
1	IXS
2	SCLK/SCL
3	SDIN/SDA
4	DC
5	CSB
6	RSTB
7	VDD
8	IREF
9	VCC
10	VCOMH
11	GND

Dots Size  
Scale 10/1

The non-specified tolerance of dimension is  $\pm 0.3$ mm.

## Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
OLED Drive Power Supply Voltage	VCC	-0.3	14.5	V
Logic Power Supply Voltage	VDD	-0.3	3.6	V
Signal Input Voltage	V <sub>i</sub>	-0.3	VDD+0.3	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

## Electrical Characteristics

### DC Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
OLED Drive Power Supply Voltage	VCC	—	6.4	12.0	12.5	V
Logic Power Supply Voltage	VDD	—	1.65	3.3	3.5	V
Input High Volt.	V <sub>IH</sub>	—	0.8xVDD	—	VDD	V
Input Low Volt.	V <sub>IL</sub>	—	0	—	0.2xVDD	V
Output High Volt.	V <sub>OH</sub>	—	0.8xVDD	—	VDD	V
Output Low Volt.	V <sub>OL</sub>	—	0	—	0.2xVDD	V
Display 50% Pixel on	ICC	VCC=12V	—	6.5	9.0	mA