



OLED SPECIFICATION

Model No:

REX012832D

General Specification

The Features is described as follow:

■ Dot Matrix: 128 x 32 Dots

■ Module dimension: 30.0 x 11.5 x 1.26 mm

■ Active Area: 22.384 x 5.584 mm

■ Pixel Size: 0.152 x 0.152 mm

■ Pixel Pitch: 0.175 x 0.175 mm

■ Display Mode: Passive Matrix

■ Display Color: Monochrome

■ Drive Duty: 1/32 Duty

■ IC: SSD1306BZ

Interface: 4-wire SPI

Size: 0.91 inch

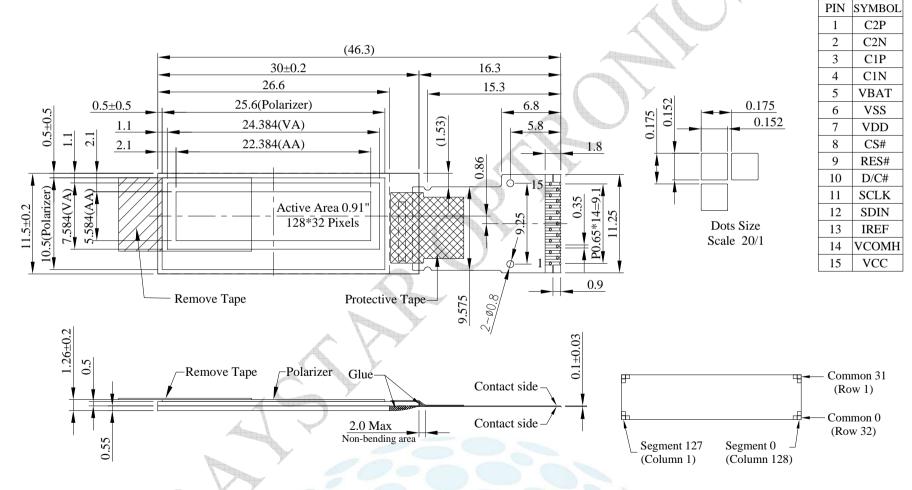


Interface Pin Function

No.	Symbol	Function					
1	C2P						
2	C2N	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	VBAT	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	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.					
7	VDD	Power Supply for Logic This is a voltage supply pin. It must be connected to external source.					
8	CS#	Chip Select This pin is the chip select input. The chip is enabled for MCU communication only when CS# is pulled low.					
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	D/C#	Data/Command Control This pin is Data/Command control pin When the pin is pulled high and serial interface mode is selected, the data at SDIN is treated as data. When it is pulled low, the data at SDIN will be transferred to the command register. In I2C mode, this pin acts as SA0 for slave address selection.					
11	SCLK	When serial mode is selected, D1 will be the serial data input SDIN and D0					
12		will be the serial clock input SCLK.					
13		Current Reference for Brightness Adjustment This pin is segment current reference pin. A resistor should be connected between this pin and VSS. Set the current lower than 12.5µA.					
14	755	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.					
15	VCC	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.					



Contour Drawing & Block Diagram



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



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	0	4.0	V
Supply Voltage for Display	VCC	0	16.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

1 DC Electrical Characteristics

			Visiting 1			
Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD)	2.8	3.0	3.3	V
Supply Voltage for Display	VCC	_	7	7.25	8	V
Input High Volt.	VIH	_	0.8×VDD	_	VDDIO	V
Input Low Volt.	VIL	30	0	6	0.2×VDD	V
Output High Volt.	VOH	200	0.9×VDD	9	VDDIO	V
Output Low Volt.	VOL	_	0	D- 6	0.1×VDD	V
Operating Current for VCC (VCC Supplied Externally)	ICC	Vcc =7.25V	_	7	11	mA



