OLED SPECIFICATION

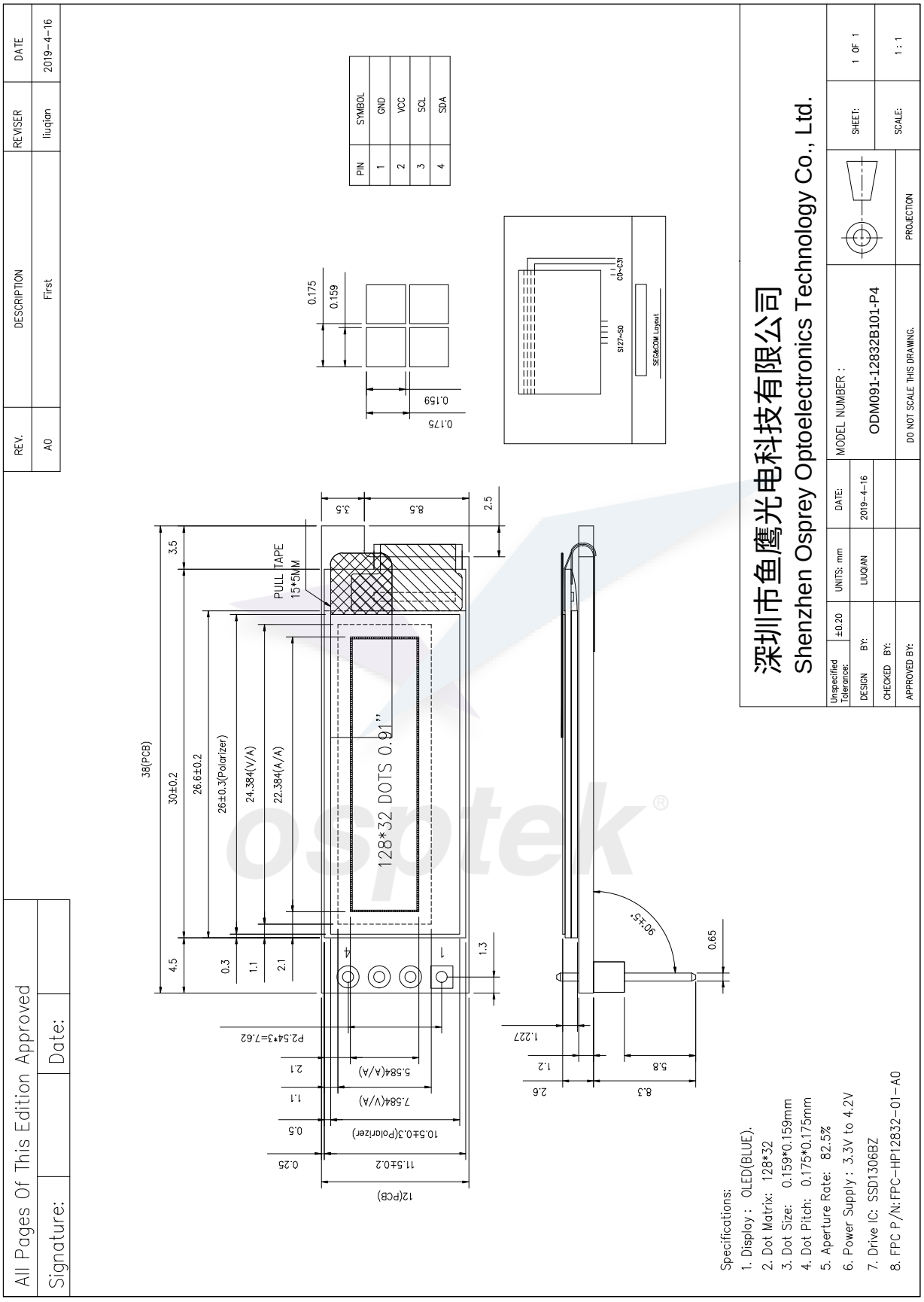
Model No:

ODM091-12832B101-P4

General Specification

Item	Dimension	Unit
Dot Matrix	128 x 32 Dots	-
Module dimension	38.0 x 12.0 x 2.6	mm
Active Area	22.384 x 5.584	mm
Pixel Size	0.159 x 0.159	mm
Pixel Pitch	0.175 x 0.175	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/32 Duty	
Frame rate	105Hz	
IC	SSD1306	
Interface	I2C	
Size	0.91 inch	

Contour Drawing & Block Diagram



Interface Pin Function

No.	Symbol	Function
1	GND	Ground.
2	VCC	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.
3	SCL	I2C Bus Clock Signal. The transmission if information in the I2C bus is following a clock sigmal. Each transmission of data bit is taken place during a single clock period of this pin.
4	SDA	I2C Bus Data Signal. This pin acts as a communication channel between the transmitter and the receiver.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VCC	3.3	5.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic(3V/5V)	VCC	-	3.3	-	5.0	V
Input High Volt.	VIH	-	0.8xVCC	-	VCC	V
Input Low Volt.	VIL			-	0.2xVCC	V
Output High Volt.	VOH	-	0.9xVCC	-	VCC	V
Output Low Volt.	VOL	-	0	-	0.1xVCC	V
50% Check Board operating Current	ICC	VCC=3.3V	-	160	220	mA