



SPECIFICATION

OLED SPECIFICATION

Model No:

REA012832E

General Specification

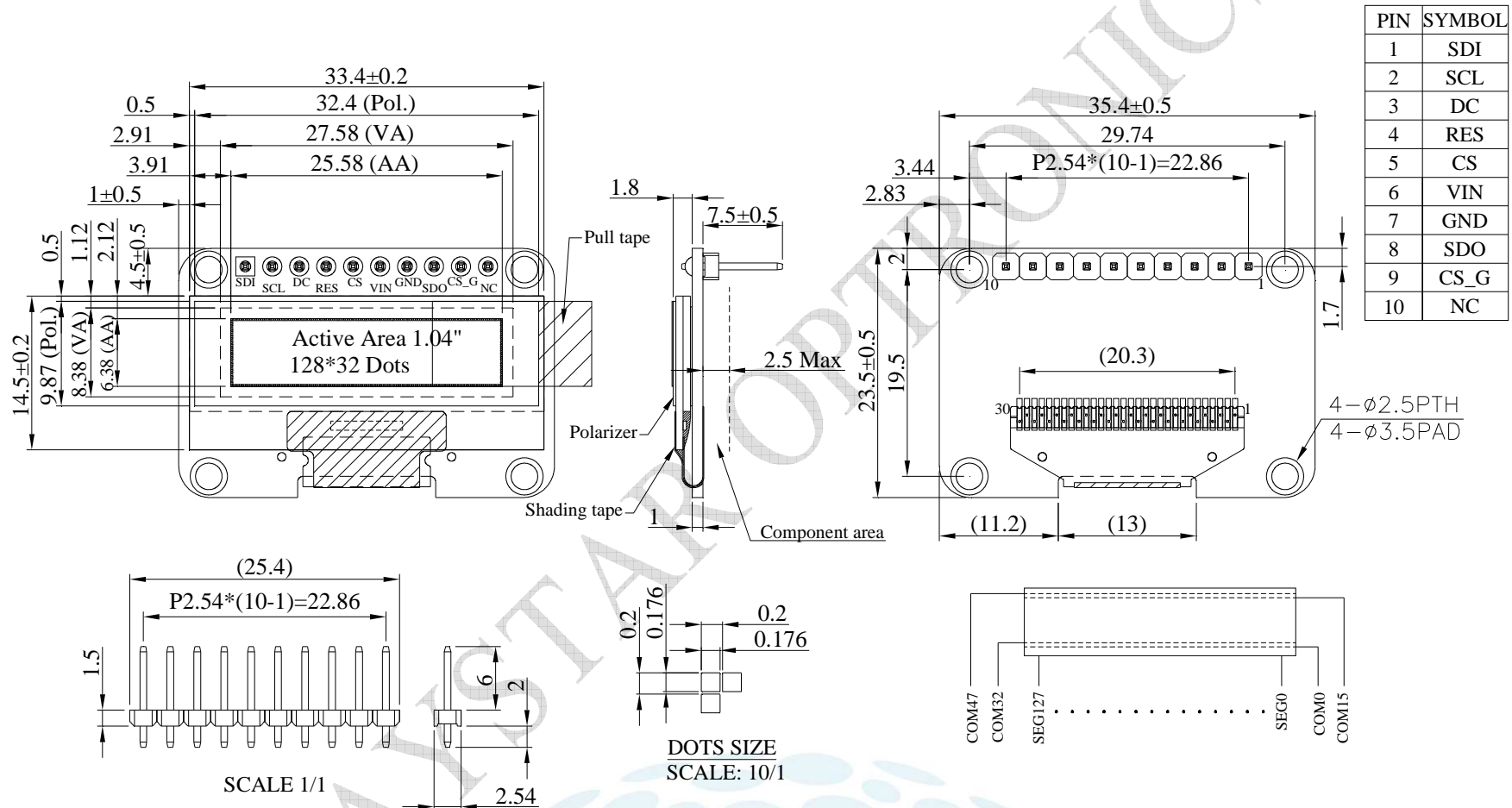
The Features is described as follow:

- Module dimension: 35.4 × 23.5 × 1.8 mm
- Active area: 25.58 × 6.38 mm
- Dot Matrix: 128 × 32
- Dot size: 0.176 × 0.176 mm
- Dot pitch: 0.200 × 0.200 mm
- Display Mode: Passive Matrix
- Duty: 1/32 Duty
- Display Color: Monochrome
- IC: SSD1306BZ
- Interface: SPI, Optional I2C
- Size: 1.04 inch

Interface Pin Function

No.	Symbol	Function
1	SDI	Supply Voltage for Logic. The I2C mode is selected, D2, D1 should be tied together and serve as SDAout, SDAin in application and D0 is the serial clock input, SCL.
2	SCL	
3	DC	Supply Voltage for Logic. 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.
4	RES	Supply Voltage for Logic. This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin HIGH (i.e. connect to VDD) during normal operation.
5	CS	Supply Voltage for Logic. This pin is the chip select input. (active LOW).
6	VIN	Input voltage for 2.8 ~ 5.0V power supply.
7	GND	This is a ground pin.
8	SDO	Supply Voltage for Logic. Serial data output for 5X16 dot matrix font.
9	CS_G	Supply Voltage for Logic. Chip enable input for 5X16 dot matrix font.
10	NC	Not connection

Contour Drawing & Block Diagram



PIN	SYMBOL
1	SDI
2	SCL
3	DC
4	RES
5	CS
6	VIN
7	GND
8	SDO
9	CS_G
10	NC

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



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Supply Voltage for input	VIN	2	7	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 Input	VIN	—	2.8	3.0	5.2	V
Supply Voltage for Logic	VDD	—	2.8	3.0	3.2	V
Input High Volt.	VIH	—	0.8xVDD	—	VDD	V
Input Low Volt.	VIL	—	0	—	0.2xVDD	V
Output High Volt.	VOH	—	0.9xVDD	—	VDD	V
Output Low Volt.	VOL	—	0	—	0.1xVDD	V
50% Check Board operating Current	ICC	Vin=3V	—	13.0	26.0	mA