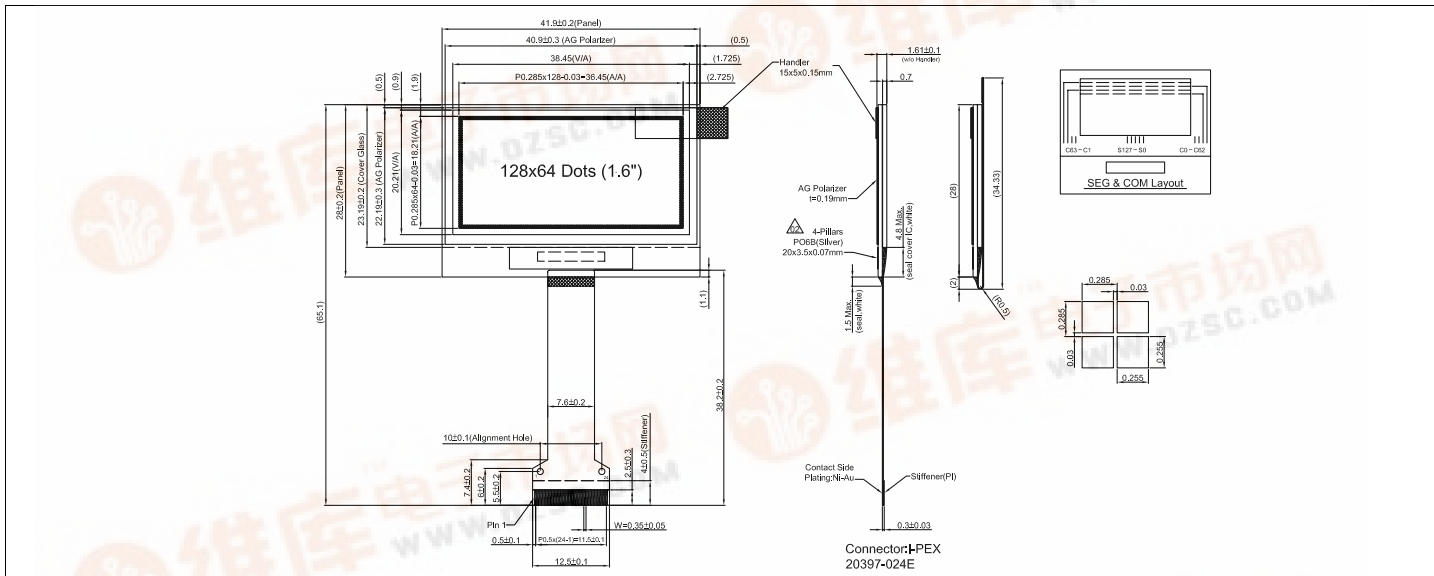


~~HDR12864-4~~

## Dimensional Drawing

128 X 64 Dots Graphic, Yellow OLED Display



## Features

|                          |                    |
|--------------------------|--------------------|
| Viewing Angle.....       | Wide (160 degrees) |
| High Contrast.....       | 2000:1             |
| Fast Response Time.....  | 10 usec            |
| Built-in DC-DC Converter |                    |
| Built-in Controller..... | SSD1325            |

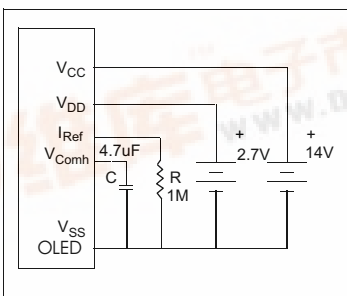
## Physical Data

|                        |                         |
|------------------------|-------------------------|
| Module Size.....       | 41.9W x65.1H x 1.61T mm |
| Viewing Area Size..... | 38.4W x 20.21H mm       |
| Dot Pitch.....         | 0.285W x 0.285H mm      |
| Dot Size.....          | 0.255W x 0.255H mm      |
| Weight.....            | 3.75gm                  |

## Electrical Characteristics (VCC=1.4±5% 25°C)

| PARAMETER          | SYM             | CONDITION     | MIN                 | TYP | MAX                | UNIT              |
|--------------------|-----------------|---------------|---------------------|-----|--------------------|-------------------|
| OPERATING VOLTAGE  | V <sub>DD</sub> | -             | 2.4                 | 2.7 | 3.5                | V                 |
| OPERATING VOLTAGE  | V <sub>CC</sub> | -             | 13.5                | 14  | 14.5               | V                 |
| INPUT HIGH VOLTAGE | V <sub>IH</sub> | -             | 0.8*V <sub>DD</sub> |     | V <sub>DD</sub>    | V                 |
| INPUT LOW VOLTAGE  | V <sub>IL</sub> | -             | 0                   | -   | 0.2V <sub>DD</sub> | V                 |
| OPERATING CURRENT  | I <sub>DD</sub> | All pixels on | -                   | -   | 650                | uA                |
| OPERATING CURRENT  | I <sub>CC</sub> | All pixels on | -                   | 18  | 20                 | mA                |
| POWER CONSUMPTION  | P <sub>D</sub>  | All pixels on | -                   | 252 | 280                | mW                |
| BRIGHTNESS         | L               | Average       | 60                  | 80  | -                  | cd/m <sup>2</sup> |
| DRIVE METHOD       | 1/64 Duty       |               |                     |     |                    |                   |

## Power Supply



### Absolute Maximum Ratings

| PARAMETER                             | SYMBOL           | MIN    | MAX                   | UNIT |
|---------------------------------------|------------------|--------|-----------------------|------|
| SUPPLY VOLTAGE                        | VDD              | -0.3   | 3.5                   | V    |
| SUPPLY VOLTAGE                        | VCC              | 8      | 16                    | V    |
| INPUT VOLTAGE                         | V <sub>IN</sub>  | -0.3   | V <sub>DD</sub> + 0.3 | V    |
| OPERATING TEMPERATURE                 | T <sub>OP</sub>  | -40    | 70                    | °C   |
| STORAGE TEMPERATURE                   | T <sub>STG</sub> | -40    | 85                    | °C   |
| LIFE TIME (60/100 Cd/m <sup>2</sup> ) |                  | 40/24k | -                     | Hrs  |

## Pin Connections

| PIN NO. | SYMBOL |     | FUNCTION                                |
|---------|--------|-----|-----------------------------------------|
| 1       | VSS    | I   | Ground Pin                              |
| 2       | VSL    | O   | SEG Signal                              |
| 3       | VCC    | I   | Power Supply for OLED driver            |
| 4       | VCOMH  | I   | COM - Voltage Reference Pin             |
| 5       | VDD    | I   | Power Supply for internal logic         |
| 6       | Bs1    | H/L | MCU interface selection input           |
| 7       | Bs2    | H/L | MCU interface selection input           |
| 8       | CS#    | L   | Chip select input                       |
| 9       | RES#   | L   | Hardware reset input                    |
| 10      | D/C#   | H/L | Data-command control input              |
| 11      | R/WR#  | L   | Write data input                        |
| 12      | E/RD#  | L   | Read data input                         |
| 13      | D0     | H/L | Bi-directional data bus                 |
| 14      | D1     | H/L | Bi-directional data bus                 |
| 15      | D2     | H/L | Bi-directional data bus                 |
| 16      | D3     | H/L | Bi-directional data bus                 |
| 17      | D4     | H/L | Bi-directional data bus                 |
| 18      | D5     | H/L | Bi-directional data bus                 |
| 19      | D6     | H/L | Bi-directional data bus                 |
| 20      | D7     | H/L | Bi-directional data bus                 |
| 21      | IREF   | I   | Reference input (connect recom. Res. R) |
| 22      | VCC    | I   | Power Supply for logic                  |
| 23      | N/C    | -   | No Connection                           |
| 24      | VSS    | I   | Ground Pin                              |



# HANTRONIX

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