## SPECIFICATION

# OLED SPECIFICATION 

Model No:

## REX012864C

## General Specification

The Features is described as follow:

- Module dimension: $26.70 \times 19.26 \times 1.26 \mathrm{~mm}$
- Active area: $21.74 \times 10.86 \mathrm{~mm}$
- Dot Matrix: $128 \times 64$

■ Pixel size: $0.148 \times 0.148 \mathrm{~mm}$
■ Pixel pitch: $0.170 \times 0.170 \mathrm{~mm}$
■ Display Mode: Passive Matrix

- Duty: 1/64 Duty

■ Display Color: White

- Controller IC: SH1106G

■ Interface: 6800, 8080, SPI, I2C

- Size: 0.96 inch


## Interface Pin Function

| No. | Symbol | Function |  |  |
| :---: | :---: | :--- | :--- | :--- |
| 1 | NC | No connection |  |  |
| 2 | C1N | Connect to charge pump capacitor. <br> These pins are not used and should be disconnected when Vpp is supplied <br> externally. |  |  |
| 3 | C1P |  |  |  |

$\left.\begin{array}{|l|c|l|}\hline 17 & & \begin{array}{l}\text { This is a MPU interface input pad. } \\ \text { When connected to an 8080 series MPU, it is active LOW. This pad is } \\ \text { connected to the RD signal of the 8080 series MPU, and the data bus is in an } \\ \text { output status when this signal is "L". } \\ \text { When connected to a 6800 series MPU , this is active HIGH. This is used as } \\ \text { an enable clock input of the } 6800 \text { series MPU. } \\ \text { When RD = "H": Enable. } \\ \text { When RD = "L": Disable. }\end{array} \\ \hline 18 & \text { D0 } & \text { This is an 8-bit bi-directional data bus that connects to an 8-bit or 16-bit } \\ \hline 19 & \text { D1 } & \text { standard MPU data bus. }\end{array}\right\}$

## Contour Drawing \& Block Diagram



## "RAYSTAR

## Absolute Maximum Ratings

| Parameter | Symbol | Min | Max | Unit |
| :--- | :---: | :---: | :---: | :---: |
| Supply Voltage for Logic | VDD1 | -0.3 | 3.6 | V |
| Power supply for charge pump circuit | VDD2 | -0.3 | 4.8 | V |
| Supply Voltage for Display | VPP | -0.3 | 14.5 | V |
| Operating Temperature | TOP | -40 | +80 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature | TSTG | -40 | +85 | ${ }^{\circ} \mathrm{C}$ |

Electrical Characteristics
DC Electrical Characteristics

| Item | Symbol | Condition | Min | Typ | Max | Unit |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Supply Voltage for Logic | VDD1 | - | 2.8 | 3.0 | 3.3 | V |
| Power supply for charge pump <br> circuit | VDD2 | - | 3.5 | 3.8 | 4.2 | V |
| Charge Pump Output Voltage for <br> Display <br> (Generated by Internal DC/DC) | Charge <br> Pump <br> VPP | - | 7.5 | 8 | 8.5 | V |
| High Level Input | VIH | - | $0.8 \times$ VDD1 | - | VDD1 | V |
| Low Level Input | VIL | - | VSS | - | $0.2 \times$ VDD1 | V |
| High Level Output | VOH | - | $0.8 \times$ VDD1 | - | VDD1 | V |
| Low Level Output | VOL | - | VSS | - | $0.2 \times$ VDD1 | V |
| Operating Current for VDD2 <br> Display 50\% ON | IDD2 | - | - | 10 | 16 | mA |

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