

# OLED DISPLAY SPECIFICATION



RAYSTAR

RAYSTAR Optronics, Inc.  
曜凌光電股份有限公司



曜凌光電股份有限公司  
Raystar Optronics, Inc.

T: +886-4-2565-0761 | F: +886-4-2565-0760

salescontact@raystar-optronics.com | www.raystar-optronics.com

## REG010032A

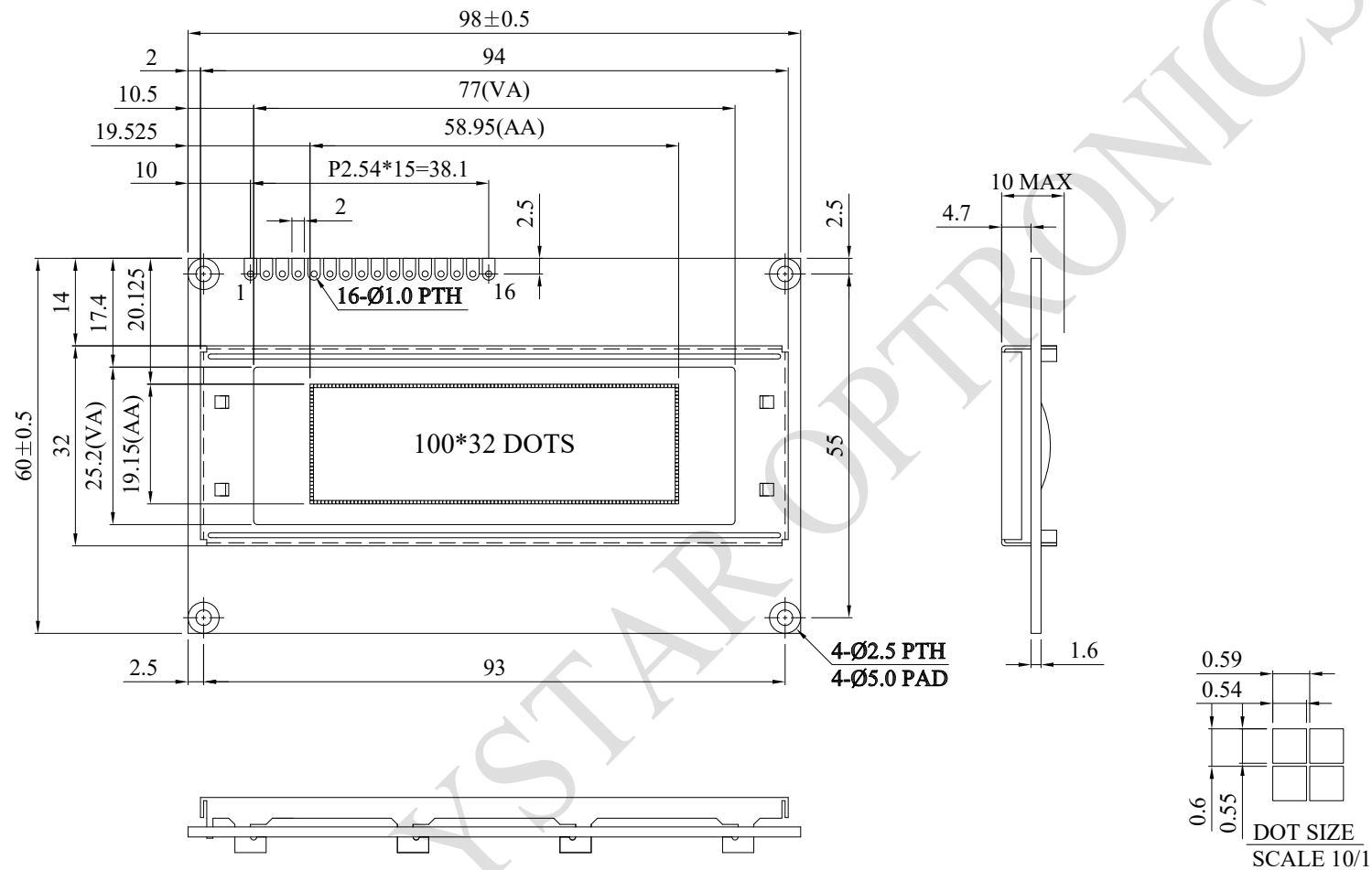
### General Specification

- Module dimension: 98.0 x 60.0 x 10.0 (max) mm
- View area: 77.0 x 25.2 mm
- Active area: 58.95 x 19.15 mm
- Dot Matrix: 100 x 32
- Dot size: 0.54 x 0.55 mm
- Dot pitch: 0.59 x 0.60 mm
- Duty: 1/16
- Emitting Color: OLED , Monochrome
- IC:RS0010-TX
- Interface: 6800
- Size: 2.44 inch

## Interface Pin Function

| Pin No. | Symbol | Level | Description                              |
|---------|--------|-------|------------------------------------------|
| 1       | VSS    | 0V    | Ground                                   |
| 2       | VDD    | 5.0V  | Supply Voltage for logic                 |
| 3       | NC     | —     |                                          |
| 4       | RS     | H/L   | H: DATA, L: Instruction code             |
| 5       | R/W    | H/L   | H: Read(Module→MPU) L: Write(MPU→Module) |
| 6       | E      | H,H→L | Chip enable signal                       |
| 7       | DB0    | H/L   | Data bit 0                               |
| 8       | DB1    | H/L   | Data bit 1                               |
| 9       | DB2    | H/L   | Data bit 2                               |
| 10      | DB3    | H/L   | Data bit 3                               |
| 11      | DB4    | H/L   | Data bit 4                               |
| 12      | DB5    | H/L   | Data bit 5                               |
| 13      | DB6    | H/L   | Data bit 6                               |
| 14      | DB7    | H/L   | Data bit 7                               |
| 15      | CS1    | —     | Chip1 select input pin                   |
| 16      | CS2    | —     | Chip2 select input pin                   |

# Contour Drawing



| PIN NO. | SYMBOL            |
|---------|-------------------|
| 1       | VSS               |
| 2       | VDD               |
| 3       | NC                |
| 4       | RS                |
| 5       | R/ $\overline{W}$ |
| 6       | E                 |
| 7       | DB0               |
| 8       | DB1               |
| 9       | DB2               |
| 10      | DB3               |
| 11      | DB4               |
| 12      | DB5               |
| 13      | DB6               |
| 14      | DB7               |
| 15      | CS1               |
| 16      | CS2               |

The non-specified tolerance of dimension is  $\pm 0.3$  mm .

## Absolute Maximum Ratings

| Item                     | Symbol  | Min  | Max | Unit |
|--------------------------|---------|------|-----|------|
| Operating Temperature    | TOP     | -40  | +80 | °C   |
| Storage Temperature      | TST     | -40  | +85 | °C   |
| Supply Voltage For Logic | VDD-VSS | -0.3 | 5.3 | V    |

## Electrical Characteristics

| Item                              | Symbol  | Condition  | Min     | Typ | Max     | Unit |
|-----------------------------------|---------|------------|---------|-----|---------|------|
| Supply Voltage For Logic          | VDD-VSS | —          | 4.8     | 5.0 | 5.3     | V    |
| Input High Volt.                  | VIH     | —          | 0.8 VDD | —   | VDD     | V    |
| Input Low Volt.                   | VIL     | —          | GND     | —   | 0.2 VDD | V    |
| Output High Volt.                 | VOH     | IOH=-0.5mA | 0.8 VDD | —   | VDD     | V    |
| Output Low Volt.                  | VOL     | IOL=0.5mA  | GND     | —   | 0.2 VDD | V    |
| 50% Check Board Operating Current | IDD     | VDD=5V     | —       | 60  | 90      | mA   |