



RAYSTAR

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SPECIFICATION

Model No:
REG010016J

General Specification

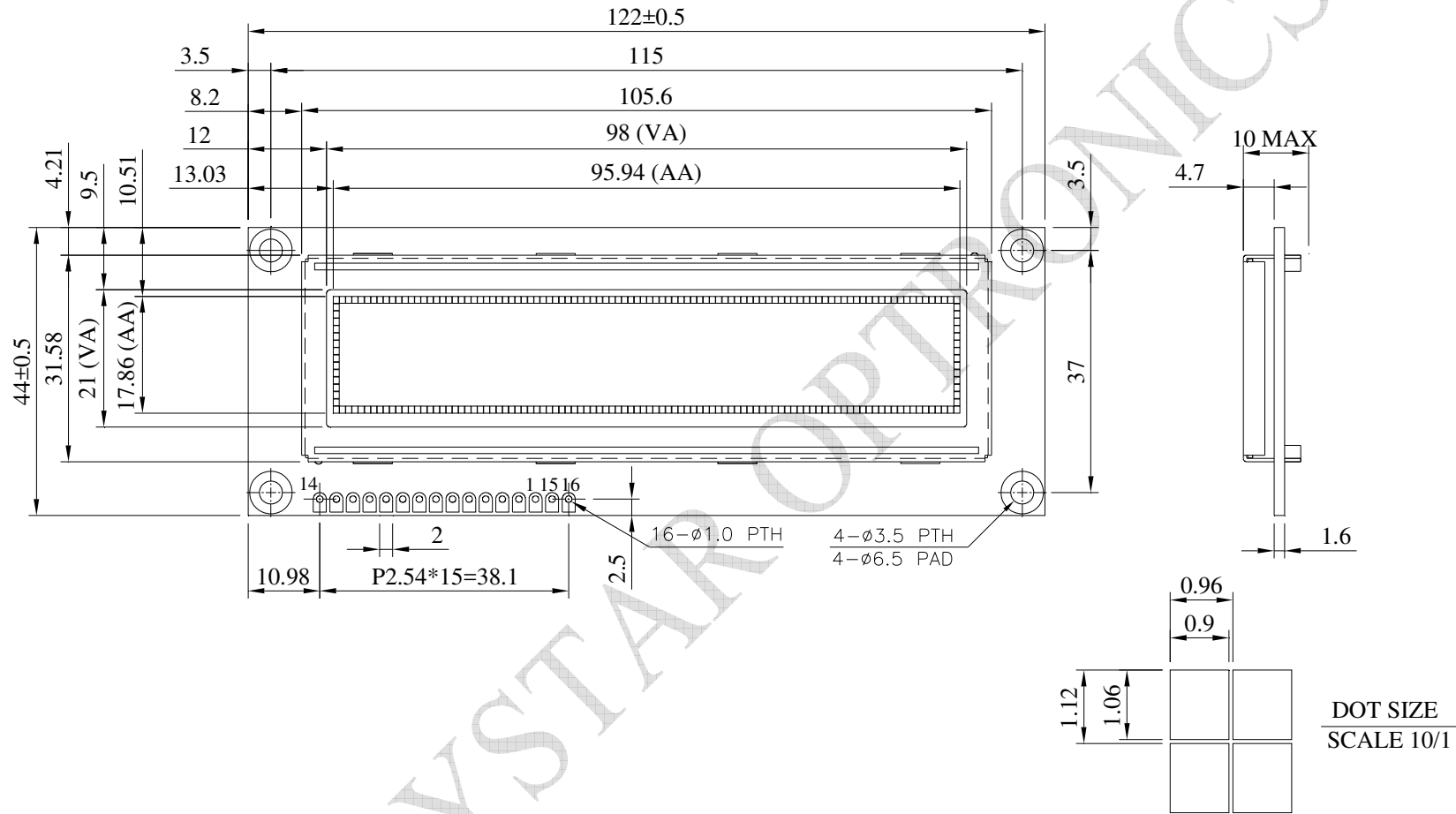
The Features is described as follow:

- Module dimension: 122.0 x 44.0 x 10.0(MAX) mm
- View area: 98.00 x 21.00mm
- Active area: 95.94 x 17.86 mm
- Dot Matrix: 100 x 16
- Dot size: 0.90 x 1.06 mm
- Dot pitch: 0.96 x 1.12mm
- Duty: 1/16
- Emitting Color: OLED , Monochrome
- Interface: 6800, option 8080, SPI
- IC: RS0010-TX
- SIZE: 3.84 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 | NC | — | — |
| 16 | NC | — | — |

Contour Drawing & Block Diagram



| PIN | SYMBOL |
|-----|--------|
| 1 | VSS |
| 2 | VDD |
| 3 | NC |
| 4 | RS |
| 5 | R/W |
| 6 | E |
| 7 | DB0 |
| 8 | DB1 |
| 9 | DB2 |
| 10 | DB3 |
| 11 | DB4 |
| 12 | DB5 |
| 13 | DB6 |
| 14 | DB7 |
| 15 | NC |
| 16 | NC |

The non-specified tolerance of dimension is ± 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

DC 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 | — | 0.8xVDD | — | VDD | V |
| Input Low Volt. | VIL | — | GND | — | 0.2xVDD | V |
| Output High Volt. | VOH | IOH=-0.5mA | 0.8xVDD | — | VDD | V |
| Output Low Volt. | VOL | IOL=0.5mA | GND | — | 0.2xVDD | V |
| 50% Check Board Operating Current | IDD | VDD=5.0V | — | 50 | 75 | mA |