

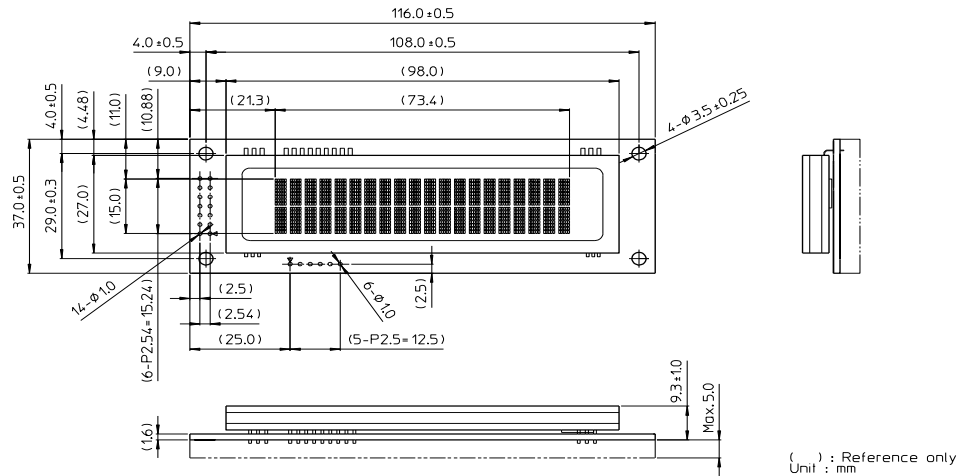
CU20027-YX100

SIMPLIFIED DATASHEET

■ Features

20 character x 2 line display.
 Brightness up to 3.5 times higher (3500cd/m²) for improved visibility outdoors.

■ Physical dimension



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Specifications

■ Electrical Ratings

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|----------------------|--------|------|------|------|------|-----------|
| Power supply Voltage | VCC | 4.75 | 5.00 | 5.25 | VDC | - |

■ Electrical Characteristics

#1: Brightness 400% #2: Brightness 100%

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|---|--------|---------|------|--------|------|----------------|
| 'L' Logic Input Current D0-D7, /WR, /RESET | IIL | - | - | -0.15 | mA | VIN=0V |
| 'H' Logic Input Current D0-D7 | IIH1 | - | - | 5.0 | μA | VIN=5V |
| /WR, /RESET | IIH2 | - | - | 0.25 | μA | VIN=5V |
| Logic input resistance SIN | RIN | 3 | - | - | KOhm | - |
| 'L' Logic Input Voltage D0-D7, /WR | VIL1 | 0 | - | 0.2VCC | VDC | - |
| /RESET | VIL2 | 0 | - | 0.8 | VDC | - |
| SIN | VIL3 | -15 | - | 0.5 | VDC | - |
| 'H' Logic Input Voltage D0-D7, /WR, /RESET | VIH1 | 0.8VCC | - | VCC | VDC | - |
| SIN | VIH2 | 3.0 | - | +15 | VDC | - |
| 'L' Logic Output Voltage PBUSY | VOL1 | - | - | 0.1 | VDC | IOL=50 μA |
| SBUSY | VOL2 | 0 | - | 0.5 | VDC | RL = 3KOhm |
| 'H' Logic Output Voltage PBUSY | VOH1 | VCC-0.1 | - | - | VDC | IOH=-50 μA |
| SBUSY | VOH2 | 4.0 | - | VCC | VDC | RL = 3KOhm |
| Power Supply Current #1 | ICC1-1 | - | 230 | 300 | mADC | Display ON |
| Power Supply Current #1 | ICC2-1 | - | 200 | 250 | mADC | Display OFF |
| Power Supply Current #2 | ICC1-3 | - | 420 | 540 | mADC | Display ON |
| Power Supply Current #2 | ICC2-3 | - | 300 | 390 | mADC | Display OFF |
| Power Supply Current 3 | ICC3 | - | 25 | 35 | mADC | Disp. Pwer OFF |
| Power Consumption #1 | - | - | 1.15 | 1.5 | W | Display ON |
| Power Consumption #2 | - | - | 2.1 | 2.7 | W | Display ON |

■ Optical Characteristics

#1: Brightness 200% #2: Brightness 100%

| Parameter | | |
|-----------------------|----|-----------------------------|
| Luminance | | 350 cd/m ² Min. |
| | #1 | 875 cd/m ² Typ. |
| | #2 | 3500 cd/m ² Typ. |
| Color of illumination | | Green (Blue-Green) |

■ Environmental Conditions

| Parameter | |
|---------------------------|---|
| Operating Temperature | -40 ~ +85 degrees celsius |
| Storage Temperature | -40 ~ +85 degrees celsius |
| Operating Humidity | 20 ~ 80% R.H. (non-condensing) |
| Storage Humidity | 20 ~ 80% R.H. (non-condensing) |
| Vibration (Non operation) | 10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z |
| Shock (Non operation) | 392m/s ² (40G) 9ms X-Y-Z, 3 times each direction |

■ Physical Specifications

| Parameter | |
|-----------------|-------------------------------|
| Number of Char. | 40 (20 characters × 2 lines) |
| Built-in Fonts | 5 × 8 ANK, International font |
| Display Area | 73.4 × 14.97 mm (X × Y) |
| Character Size | 2.72 × 7.19 mm (X × Y) |
| Character Pitch | 3.72 mm |
| Line pitch | 7.81 mm |
| Weight | About 48 g |

■ Interface

Parallel (CMOS), Asynchronous Serial (RS232)

■ Pin Assignment (Parallel)

| Pin No | Signal | Pin No | Signal |
|--------|---------|--------|---------|
| 1 | GND | 2 | Vcc |
| 3 | PBUSY | 4 | /RESET |
| 5 | /WR | 6 | NC |
| 7 | D0(LSB) | 8 | D1 |
| 9 | D2 | 10 | D3 |
| 11 | D4 | 12 | D5 |
| 13 | D6 | 14 | D7(MSB) |

(Serial)

| Pin No | Signal | Baud Rate Setting |
|--------|--------|---------------------|
| 1 | Vcc | 9600bps |
| 2 | SIN | 19200bps |
| 3 | GND | 38400bps* |
| 4 | SBUSY | 115200bps |
| 5 | NC | (*:factory default) |
| 6 | /RESET | |

■ Functions

| Parameter | |
|--------------------------|--|
| Highlight Function | |
| Font Magnification | |
| Horizontal scroll mode | |
| Blink ON/OFF | |
| Power save mode | |
| Screen saver | |
| Cursor, Underline ON/OFF | |
| User Font function | |
| etc. | |