

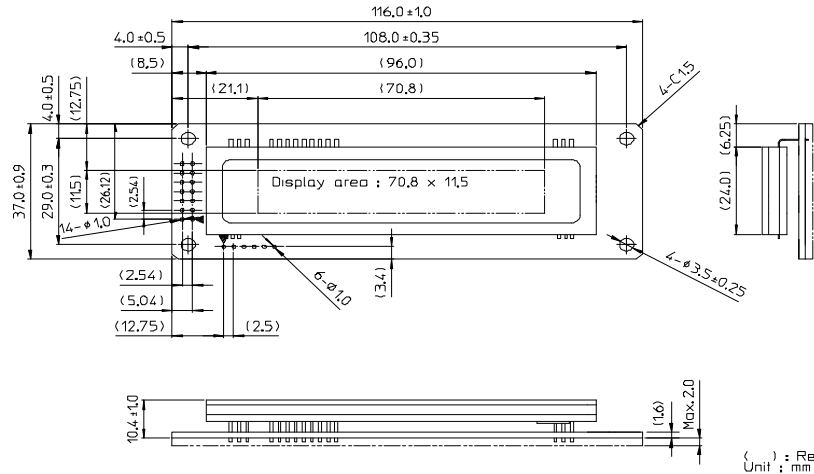
CU20025-UX1J

SIMPLIFIED DATASHEET

Features

20 character x 2 line display LCD compatible module.
 Simple control.
 Higher brightness, from standard (CU20025-UW1J level) 1000cd/m² (typ) to up to 2000cd/m² (max).

Physical dimension



Get full specification



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() : Reference only
 Unit : mm

Specifications

Electrical Ratings

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|---|---------|--------|------|--------|------|----------------|
| Logic Input Voltage DB0-DB7, RS,R/W(WR), E(RD),SCK, STB | VIH1 | 2.0 | - | VCC | VDC | VCC-VSS= 5.0 V |
| | VIL1 | VSS | - | 0.8 | VDC | |
| Logic Input Voltage SI/SO | VIH2 | 0.7VCC | - | VCC | VDC | VCC-VSS= 5.0 V |
| | VIL2 | VSS | - | 0.3VCC | VDC | |
| Logic Input Voltage /RESET | VIH3 | 0.8VCC | - | VCC | VDC | VCC-VSS= 5.0 V |
| | VIL3 | VSS | - | 0.2VCC | VDC | |
| Power supply Voltage | VCC-VSS | 4.75 | 5.00 | 5.25 | VDC | - |

Physical Specifications

| Parameter | Value |
|-----------------|----------------------------|
| Number of char. | 40 (20 x 2) |
| Matrix format | 5 x 7 ANK, International |
| Display area | 70.8 x 11.5 mm (X x Y) |
| Character size | 2.4 x 4.7 mm (X x Y) |
| | Underline is not included. |
| Character pitch | 3.6 mm |
| Line pitch | 6.1 mm |
| Weight | About 40 g |

Electrical Characteristics

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|--------------------------|--------|---------|------|------|------|-------------|
| Logic Output Voltage 'H' | VOH | VCC-0.8 | - | - | VDC | IOH = -4 mA |
| 'L' | VOL | - | - | 0.6 | VDC | IOL = 4 mA |
| 'H' | VOH | VCC-0.5 | - | - | VDC | IOH = -2 mA |
| 'L' | VOL | - | - | 0.5 | VDC | IOL = 2 mA |
| Power Supply Current #1 | ICC1 | - | 210 | 290 | mA | Display ON |
| Power Supply Current #2 | ICC2 | - | 160 | 210 | mA | Display ON |
| Power Supply Current 3 | ICC3 | - | 3 | 10 | mA | Display OFF |
| Power Consumption #1 | - | - | 1.05 | 1.45 | W | Display ON |
| Power Consumption #2 | - | - | 0.70 | 1.00 | W | Display ON |

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

Interface

8bit/4bit Parallel(TTL), Synchronous Serial (CMOS)

Pin Assignment (Parallel)

| Pin No | Signal | Pin No | Signal |
|--------|---------|--------|--------|
| 1 | GND | 2 | VCC |
| 3 | NC | 4 | RS |
| 5 | R/W(WR) | 6 | E(RD) |
| 7 | DB0 | 8 | DB1 |
| 9 | DB2 | 10 | DB3 |
| 11 | DB4 | 12 | DB5 |
| 13 | DB6 | 14 | DB7 |

(Synchronous Serial)

| Pin No | Signal |
|--------|--------|
| 1 | VCC |
| 2 | SI/SO |
| 3 | GND |
| 4 | STB |
| 5 | SCK |
| 6 | NC |

Optical Characteristics

| Parameter | Value |
|-----------------------|-----------------------------|
| Luminance | 350 cd/m ² Min. |
| #1 | 1000 cd/m ² Typ. |
| #2 | 2000 cd/m ² Typ. |
| Color of illumination | Green (Blue-Green) |

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

Environmental Conditions

| Parameter | Value |
|---------------------------|--|
| Operating Temperature | -40 ~ +85 degrees celsius |
| Storage Temperature | -50 ~ +85 degrees celsius |
| Operating Humidity | 20 ~ 80% R.H. (non-condensing) |
| Vibration (Non operation) | 10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z |
| Shock (Non operation) | 539m/s ² (55G) 10ms |

Functions

| Parameter | Value |
|--|-------|
| Brightness Boost function | |
| Command compatible with HD44780 LCD controller | |
| Display ON/OFF | |
| Brightness Control | |
| Cursor ON/OFF | |
| 8 User definable character font | |
| etc. | |



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Please confirm product details in the specification.

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