

LCD2004 Module User Guid

Chapter 1. 2004 LCD Module Blue Characters White Backlight HD44780

1.1 Characters

Display Content: 20CHAR x 4ROW

Char. Dots: 5 x 8
Driving Mode: 1/16D
Available Types:
STN

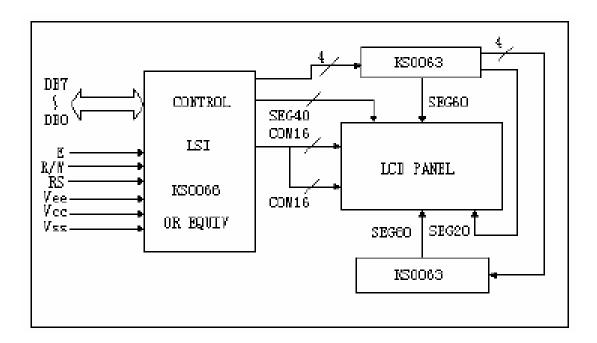
Reflective

1.2 Parameter

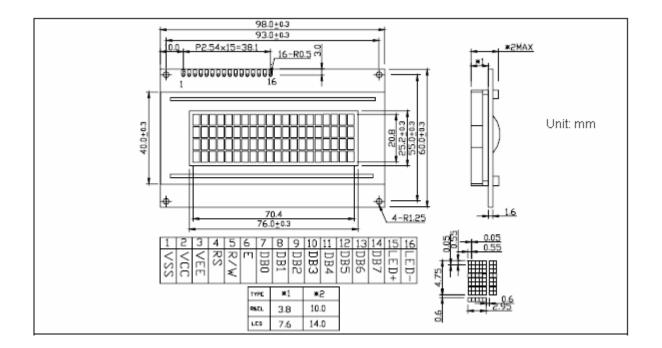
 $(V_{DD}=5.0V\pm10\%, V_{SS}=0V, Ta=25^{\circ}C)$

| Parameter | Symbol | Testing | S | Unit | | | |
|---------------------|---------------------|------------------------|------|------|----------|-------|--|
| Farameter | Symbol | Criteria | Min. | Тур. | Max | Offic | |
| Supply voltage | V_{DD} - V_{SS} | - | 4.5 | 5.0 | 5.5 | V | |
| Input high voltage | V _{IH} | - | 2.2 | - | V_{DD} | V | |
| Input low voltage | V_{IL} | - | -0.3 | - | 0.6 | V | |
| Output high voltage | V_{OH} | -I _{OH} =02mA | 2.4 | - | • | V | |
| Output low voltage | V _{OL} | I _{OL} =1.2mA | 1 | - | 0.4 | V | |
| Operating current | I _{DD} | V _{DD} =5.0V | - | 2.0 | 5.0 | mA | |

1.3 Application Circuit



1.4 Dimension/ Display Content



Pin configuration

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-----------------|-----------------|-----------------|----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| V _{SS} | V _{CC} | V _{EE} | RS | R/W | Е | DB0 | DB1 | DB2 | DB3 | DB4 | DB5 | DB6 | DB7 | LED+ | LED- |