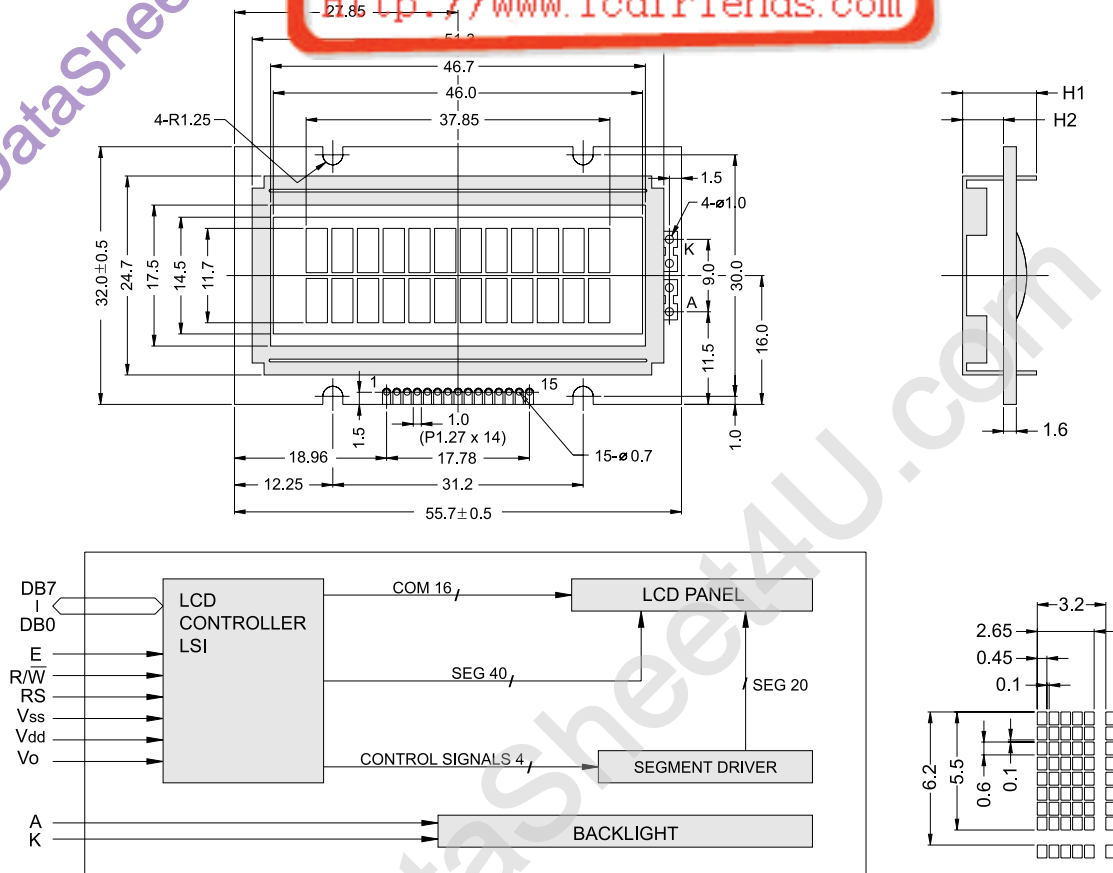


OUTLINE DIMENSION & BLOCK DIAGRAM

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<http://www.lcdfriends.com>



The tolerance unless classified $\pm 0.3\text{mm}$

MECHANICAL SPECIFICATION

| Overall Size | 55.7 x 32.0 | Module | H2 / H1 |
|--------------|-------------|-------------|------------|
| View Area | 46.7 x 17.5 | W / O B / L | 5.1 / 9.2 |
| Dot Size | 0.45 x 0.60 | EL B / L | 5.1 / 9.2 |
| Dot Pitch | 0.55 x 0.70 | LED B / L | 8.7 / 12.8 |

PIN ASSIGNMENT

| Pin no. | Symbol | Function |
|---------|--------|--------------------------------|
| 1 | Vss/K | Power supply(GND) / LED B/L(-) |
| 2 | Vdd | Power supply(+) |
| 3 | Vo | Contrast Adjust |
| 4 | RS | Register select signal |
| 5 | R/W | Data read / write |
| 6 | E | Enable signal |
| 7 | DB0 | Data bus line |
| 8 | DB1 | Data bus line |
| 9 | DB2 | Data bus line |
| 10 | DB3 | Data bus line |
| 11 | DB4 | Data bus line |
| 12 | DB5 | Data bus line |
| 13 | DB6 | Data bus line |
| 14 | DB7 | Data bus line |
| 15 | A | Power supply for LED B/L (+) |

ABSOLUTE MAXIMUM RATING

| Item | Symbol | Condition | Min. | Max. | Units |
|----------------------------|---------|-----------|------|---------|-------|
| Supply for logic voltage | Vdd-Vss | 25°C | -0.3 | 7 | V |
| LCD driving supply voltage | Vdd-Vee | 25°C | -0.3 | 13 | V |
| Input voltage | Vin | 25°C | -0.3 | Vdd+0.3 | V |

ELECTRICAL CHARACTERISTICS

| Item | Symbol | Condition | Min. | Typical | Max. | Units | | | |
|----------------------------------|-----------|-----------|------|---------|------|-------|-----|-----|---|
| Power supply voltage | Vdd-Vs | 25°C | 2.7 | - | 5.5 | V | | | |
| LCD operation voltage | Vop | Top | N | W | N | W | N | W | V |
| | | -20°C | - | 7.1 | - | 7.5 | - | 7.9 | V |
| | | 0°C | 4.5 | - | 4.6 | - | 5.1 | - | V |
| | | 25°C | 4.1 | 6.1 | 4.4 | 6.4 | 4.7 | 6.7 | V |
| | | 50°C | 3.8 | - | 4.1 | - | 4.4 | - | V |
| 70°C | - | 5.7 | - | 6 | - | 6.3 | V | | |
| LCM current consumption (No B/L) | Idd | Vdd=5V | - | 1.5 | 2.5 | mA | | | |
| Backlight current consumption | LED/edge | VB/L=4.2V | - | 40 | - | mA | | | |
| | LED/array | VB/L=4.2V | - | 80 | - | mA | | | |