

## DE-LM005

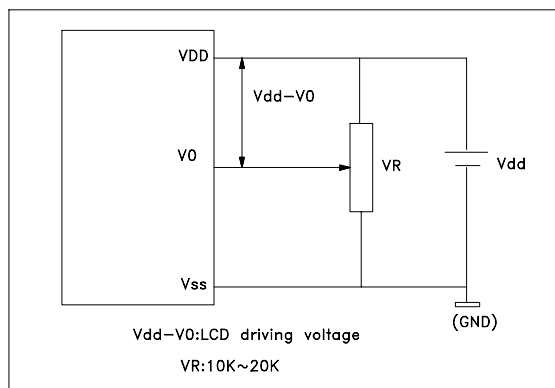
### Series

|                       |                         |
|-----------------------|-------------------------|
| Display Format        | 20 Characters X 4 Lines |
| Drive Method          | 1/16 Duty , 1/5 Bias    |
| LCD Type              | STN Blue                |
| LED Backlight         | White                   |
| Viewing direction     | 6 : 00                  |
| Operating Temperature | -20°C~+60°C             |

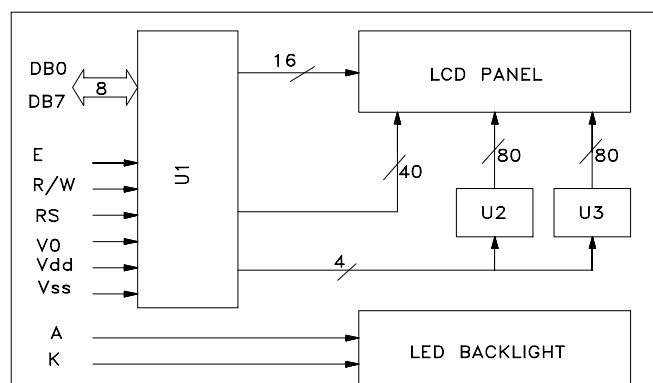
### Electrical Characteristics

| ITEM                     | Symbol       | Condition       | Standard value |      |          | UNIT |
|--------------------------|--------------|-----------------|----------------|------|----------|------|
|                          |              |                 | Min.           | Typ. | Max.     |      |
| Supply Voltage For Logic | $V_{DD-VSS}$ | --              | 4.5            | 5.0  | 5.5      | V    |
| Supply Voltage For LCD   | $V_{DD-V_0}$ | --              | --             | 4.7  | --       | V    |
| Input High Voltage       | $V_{IH}$     | --              | 2.2            | --   | $V_{DD}$ | V    |
| Input Low Voltage        | $V_{IL}$     | --              | -0.3           | --   | 0.6      | V    |
| output High Voltage      | $V_{OH}$     | $-I_{OH}=0.2mA$ | 2.4            | --   | --       | V    |
| output Low Voltage       | $V_{OL}$     | $I_{OL}=1.2mA$  | --             | --   | 0.4      | V    |
| Power Supply Current     | $V_{DD}$     | $V_{DD}=5.0V$   | --             | 2.0  | 5        | mA   |
| With B/L                 | $I_{LED}$    | $V_{LED}=5.0V$  | --             | 72   | 80       | mA   |

### Power supply



### Block Diagram



### EXTERNAL DIMENSIONS AND DISPLAY PATTERN

