



**Feature**

- 1 .16x2 characters includes cursor
- 2. Built-in controller (KS 0066 or Equivalent)
- 3. +5V power supply(Also available for +3V)
- 4. 1/16 duty cycle
- 5. LED can be driven by pin1 .pin2.or A and K

**Terminal Function**

| Pin No. | Symbol            | Function                               |
|---------|-------------------|--|
| 1       | V <sub>SS</sub>   | GND                                    |
| 2       | V <sub>DD</sub>   | Supply voltage for logic               |
| 3       | V <sub>0</sub>    | Contrast Adjustment                    |
| 4       | RS                | Register select signal                 |
| 5       | R/W               | Read / write signal                    |
| 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/V <sub>ee</sub> | Backlight LED+/Negative Voltage output |
| 16      | K                 | Backlight LED-                         |

**Mechanical Data**

| Item         | Value       | Unit |
|--------------|-------------|------|
| Outline      | 85.0 x 36.0 | mm   |
| Viewing Area | 66.0 x 16.0 | mm   |
| Active Area  | 56.2x 11.5  | mm   |
| Dot Size     | 0.55 x 0.65 | mm   |
| Dot Pitch    | 0.6 x 0.7   | mm   |

**Electrical Characteristics**

| Item                   | Symbol                           | Min             | Typ | Max             |
|------------------------|----------------------------------|-----------------|-----|-----------------|
| Operating Voltage(V)   | V <sub>DD</sub>                  | 4.7             | 5.0 | 5.3             |
| Supply Voltage For LCD | V <sub>DD</sub> - V <sub>0</sub> | -               | 4.4 | -               |
| Input High Voltage(V)  | V <sub>IH</sub>                  | 0.7             | -   | V <sub>DD</sub> |
| Input Low Voltage(V)   | V <sub>IL</sub>                  | V <sub>SS</sub> | -   | 0.6             |
| Operating Current(mA)  | I <sub>DD</sub>                  | -               | 1.2 | 1.5             |

**Backlight Characteristics**

| Item            | Symbol                 | Min | Typ | Max | Unit |
|-----------------|------------------------|-----|-----|-----|------|
| Forward Voltage | V <sub>f</sub> (edge)  | 3.4 | 3.5 | 3.6 | V    |
| Forward Current | I <sub>f</sub> (edge)  | 28  | 32  | 38  | mA   |
| Forward Voltage | V <sub>f</sub> (array) | -   | 4.2 | 4.4 | V    |
| Forward Current | I <sub>f</sub> (array) | -   | 100 | -   | mA   |

**Absolute Maximum**

| Item                      | Symbo           | Min  | Max |
|---------------------------|-----------------|------|-----|
| Operating Voltage(V)      | V <sub>dd</sub> | -0.3 | 5.5 |
| Operating Temperature(°C) | Top             | -20  | +70 |
| Storage Temperature (°C)  | T <sub>st</sub> | -30  | +80 |