



Feature

- 1. 128x64 dots includes cursor
- 2. Built-in controller(SBN0064,SBN6400 or equivalent)
- 3. +5V power supply(Also available for +3V)
- 4. 1/64duty cycle
- 5. LED can be driven by pin1, pin2, or A and K

Mechanical Data

| Item | Value | Unit |
|--------------|-------------|------|
| Outline | 93.0 x 70.0 | mm |
| Viewing Area | 72.0x40.0 | mm |
| Active Area | 66.52x33.24 | mm |
| Dot Size | 0.48x 0.48 | mm |
| Dot Pitch | 0.52x 0.52 | mm |

Terminal Function

| Pin No. | Symbol | Function |
|---------|-----------------|--------------------------|
| 1 | V _{SS} | GND |
| 2 | V _{DD} | Supply voltage for logic |
| 3 | V ₀ | Contrast Adjustment |
| 4 | D/I | Data/instruction |
| 5 | R/W | Data read/write |
| 6 | E | Enable signal |
| 7-14 | DB0-DB7 | Data bus line |
| 15 | CS1 | Chip select for IC1 |
| 16 | CS2 | Chip select for IC2 |
| 17 | /RST | Reset signal |
| 18 | V _{ee} | Negative Voltage output |
| 19 | A | Backlight LED+ |
| 20 | K | Backlight LED- |

Electrical Characteristics

| Item | Symbol | Min | Typ | Max |
|------------------------|---------------------------------|-----------------|-----|-----------------|
| Operating Voltage(V) | V _{DD} | 4.7 | 5.0 | 5.3 |
| Supply Voltage For LCD | V _{DD} -V ₀ | — | 9.2 | — |
| Input High Voltage(V) | V _{IH} | 0.7 | — | V _{DD} |
| Input Low Voltage(V) | V _{IL} | V _{SS} | — | 0.6 |
| Operating Current(mA) | I _{DD} | — | 2.5 | 7.5 |

Backlight Characteristics

| Item | Symbol | Min | Typ | Max | Unit |
|-----------------|------------------------|-----|-----|-----|------|
| Forward Voltage | V _f (edge) | 3.4 | 3.5 | 3.6 | V |
| Forward Current | I _f (edge) | 48 | 64 | 80 | mA |
| Forward Voltage | V _f (array) | - | 4.2 | 4.4 | V |
| Forward Current | I _f (array) | - | 330 | 660 | mA |

Absolute Maximum

| Item | Symbo | Min | Max |
|---------------------------|-----------------|------|-----|
| Operating Voltage(V) | V _{dd} | -0.3 | 5.5 |
| Operating Temperature(°C) | Top | -20 | +70 |
| Storage Temperature (°C) | T _{st} | -30 | +80 |