

SC4004B (40 CHARACTERS x 4 LINES)

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FEATURES

- ◆ 5 x 7 DOTS WITH CURSOR
- ◆ BUILT-IN CONTRAST ADJUSTMENT
- ◆ 5 V POWER SUPPLY
- ◆ 1/16 DUTY CYCLE
- ◆ 4.2 V LED FORWARD VOLTAGE

ELECTRICAL CHARACTERISTICS

| ITEM | SYMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT |
|-----------------------|---------------------|-----------------|------|------|------|-------------------|
| LCD Operating Voltage | V _{DD-Vo} | T=0°C | - | 4.8 | - | V |
| | | T=25°C | - | 4.5 | - | V |
| | | T=50°C | - | 4.2 | - | V |
| Supply Voltage | V _{DD-VSS} | - | 4.7 | 5 | 5.3 | V |
| Supply Current | I _{DD} | - | - | 5.2 | 10.8 | mA |
| Input Voltage | "HIGH" Level | V _{IH} | - | 2.2 | - | V _{DD} V |
| | "LOW" Level | V _{IL} | - | 0 | - | 0.6 V |
| Output Voltage | "HIGH" Level | V _{OH} | - | 2.4 | - | V |
| | "LOW" Level | V _{OL} | - | - | - | 0.4 V |

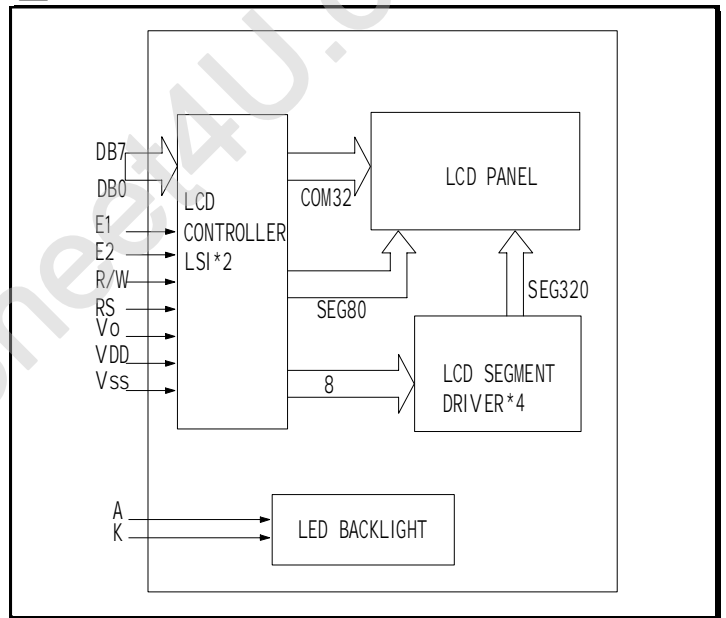
MECHANICAL DATA

| ITEM | DIMENSIONS | UNIT |
|-------------------------|---------------------------|------|
| Module Size (W x H x T) | 288.3 x 77.5 x 12.8(18.7) | mm |
| Viewing Area (W x H) | 260.0 x 56.6 | mm |
| Character Size (W x H) | 5.16 x 10.52 | mm |
| Character Pitch (W x H) | 6.25 x 13.62 | mm |
| Dot Size (W x H) | 1.00 x 1.28 | mm |
| Dot Pitch (W x H) | 1.04 x 1.32 | mm |

INTERFACE PIN CONNECTIONS

| NO. | SYMBOL | FUNCTION | NO. | SYMBOL | FUNCTION |
|-----|--------|-----------------|-----|--------|----------------|
| 2 | NC | No Control | 15 | DB2 | Data Bit 2 |
| 3 | E2 | Enable IC2 | 17 | DB3 | Data Bit 3 |
| 4 | Vo | Contrast Adj. | 19 | DB4 | Data Bit 4 |
| 5 | R/W | Read/Write | 20 | VSS | Supply Ground |
| 7 | RS | Register Select | 21 | DB5 | Data Bit 5 |
| 9 | E1 | Enable IC1 | 22 | VDD | Supply Voltage |
| 11 | DB0 | Data Bit 0 | 23 | DB6 | Data Bit 6 |
| 13 | DB1 | Data Bit 1 | 25 | DB7 | Data Bit 7 |

BLOCK DIAGRAM



EXTERNAL DIMENSIONS

