

SC2002A (20 CHARACTERS x 2 LINES)

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FEATURES

- ◆ 5 x 7 DOT MATRIX WITH CURSOR
- ◆ BUILT-IN CONTROLLER (KS0066 OR EQUIVALENT)
- ◆ 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} | - | - | 3.2 | 6 | 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 |

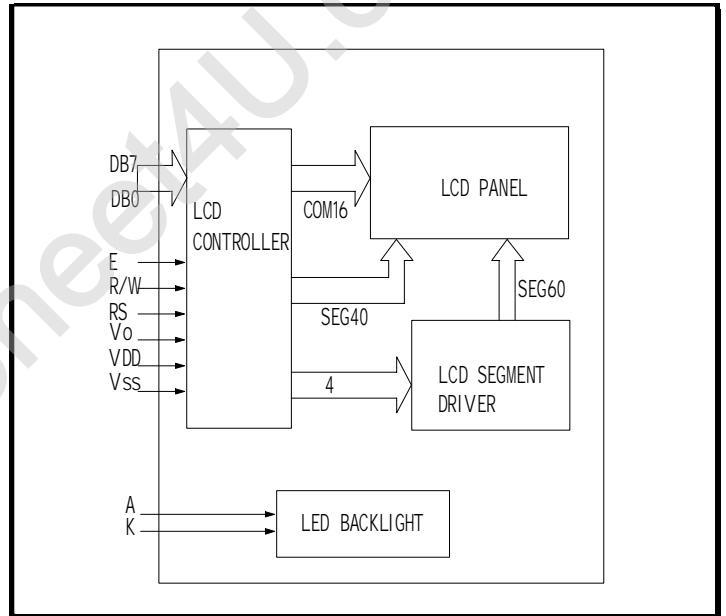
MECHANICAL DATA

| ITEM | DIMENSIONS | UNIT |
|-------------------------|--------------------------------|------|
| Module Size (W x H x T) | 116.0x 37.0 x 8.8 (12.7 LED) | mm |
| Viewing Area (W x H) | 85.0 x 18.8 | mm |
| Character Size (W x H) | 3.20 x 5.55 | mm |
| Character Pitch (W x H) | 3.70 x 5.95 | mm |
| Dot Size (W x H) | 0.60 x 0.65 | mm |
| Dot Pitch (W x H) | 0.65 x 0.70 | mm |

INTERFACE PIN CONNECTIONS

| NO. | SYMBOL | FUNCTION | NO. | SYMBOL | FUNCTION |
|-----|-----------------|-----------------|-----|--------|------------|
| 1 | V _{SS} | Supply Ground | 9 | DB2 | Data Bit 2 |
| 2 | V _{DD} | Supply Voltage | 10 | DB3 | Data Bit 3 |
| 3 | V _O | Contrast Adj. | 11 | DB4 | Data Bit 4 |
| 4 | RS | Register Select | 12 | DB5 | Data Bit 5 |
| 5 | R/W | Read/Write | 13 | DB6 | Data Bit 6 |
| 6 | E | Enable Signal | 14 | DB7 | Data Bit 7 |
| 7 | DB0 | Data Bit 0 | 15 | A | LED Power |
| 8 | DB1 | Data Bit 1 | 16 | K | LED Power |

BLOCK DIAGRAM



EXTERNAL DIMENSIONS

