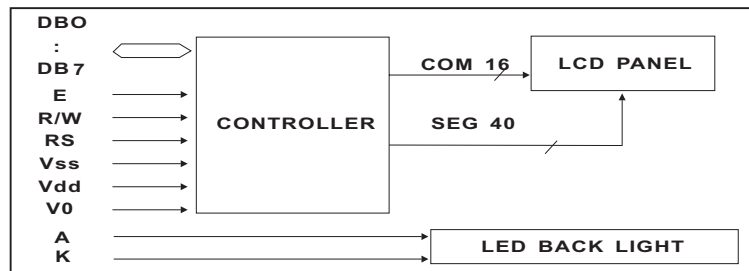


| ITEM | T1 | T2 |
|------------------------|-----|------|
| LED backlight | 9.2 | 13.5 |
| EL / without backlight | 5.2 | 9.5 |



FEATURE

1. 5X8 dots with cursor
2. Built-in controller (SPLC780D or Equivalent)
3. +5V power supply (Also available for +3.0V)
4. 1/16 duty cycle
5. BKL to be driven by pin1, pin2 or A, K
6. N.V. Optional

ABSOLUTE MAXIMUM RATINGS

| ITEM | SYMBOL | MIN | MAX | UNIT |
|----------------------|--------|----------|---------|------|
| POWER SUPPLY (LOGIC) | Vdd | -0.3 | 7.0 | V |
| POWER SUPPLY (LCD) | V0 | Vdd-13.5 | Vdd+0.3 | V |
| INPUT VOLTAGE | Vin | -0.3 | Vdd+0.3 | V |

PIN ASSIGNMENT

| PIN | SYMBOL | FUNCTION |
|------|---------|-------------------------|
| 1 | Vss | GND |
| 2 | Vdd | Power Supply |
| 3 | V0 | Contrast Adjust |
| 4 | RS | Register Select Signal |
| 5 | R/W | Data Read/Write |
| 6 | E | Enable Signal |
| 7-14 | DB0-DB7 | Data Bus Line |
| A | LED+ | Power supply for BKL(+) |
| K | LED- | Power supply for BKL(-) |

MECHANICAL SPECIFICATIONS

| | | |
|------------------|-----------------|----|
| CHARACTER NUMBER | 8W X 2H | — |
| OVERALL SIZE | 58.00W X 32.00H | mm |
| VIEWING AREA | 38.00W X 16.00H | mm |
| HOLE - HOLE | 53.00WX27.00H | mm |
| CHARACTER SIZE | 2.96W X 5.56H | mm |
| CHARACTER PITCH | 0.59WX0.36H | mm |
| DOT SIZE | 0.56W X 0.66H | mm |
| DOT PITCH | 0.04W X 0.04H | mm |

ELECTRONICAL CHARACTERISTICS

| ITEM | SYMBOL | CONDITION | STANDARD | | | UNIT |
|--|----------------|-----------------------------------|----------|-----|-----|------|
| | | | MIN | TYP | MAX | |
| Input voltage | Vdd | +5V | 4.7 | 5.0 | 5.5 | V |
| | | +3.3V | 2.7 | 3.0 | 3.3 | V |
| Supply current | Idd | Vdd=5V | --- | 1.3 | 2.5 | mA |
| Recommended LCD driving voltage for normal temp version module | Vdd-V0 | 0 °C | 4.7 | 5.0 | 5.5 | V |
| | | 25 °C | 4.3 | 4.5 | 4.7 | |
| | | 50 °C | 4.1 | 4.3 | 4.5 | |
| LED forward voltage | V _F | 25 °C | --- | 4.2 | 4.6 | V |
| LED forward current | I _F | 25 °C | --- | 70 | --- | mA |
| EL power supply current | EL | AC 400Hz V _{EL} =110V | ---- | --- | --- | mA |

DISPLAY CHARACTER ADDRESS CODE

| | |
|------------------|----------------------|
| Display position | 1 2 3 4 5 6 7 8 |
| DDRAM address | 00 01 02 -- -- -- 07 |
| DDRAM address | 40 41 42 -- -- -- 47 |