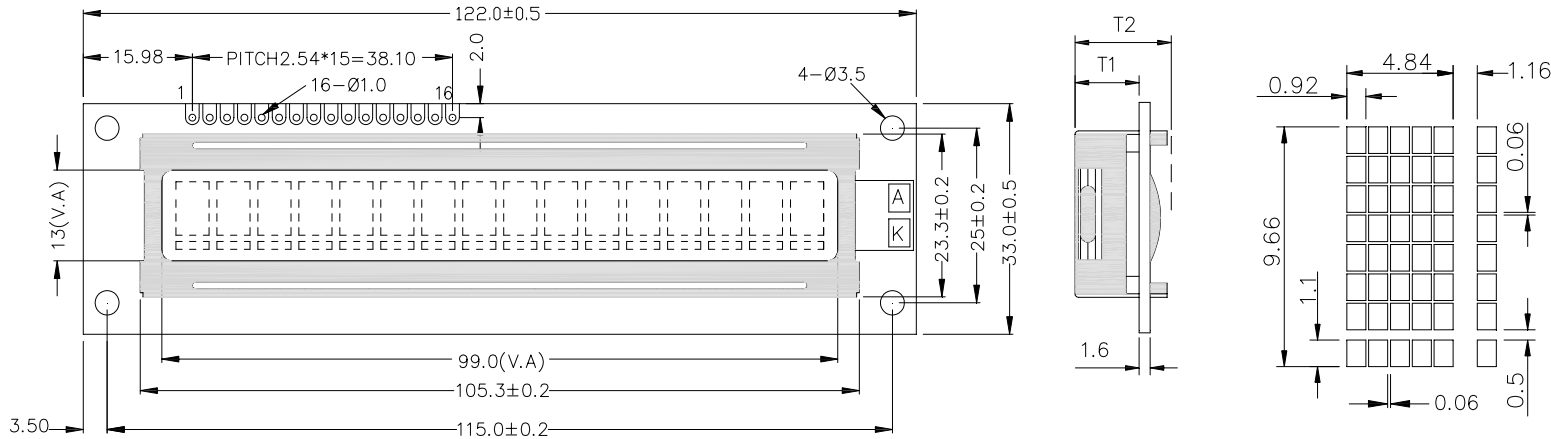


| Pin | Symbol |
|-------|---------|
| 1 | VSS |
| 2 | VDD |
| 3 | V0 |
| 4 | RS |
| 5 | RW |
| 6 | E |
| 7~10 | DB0~DB3 |
| 11~14 | DB4~DB7 |
| 15 | A |
| 16 | K |

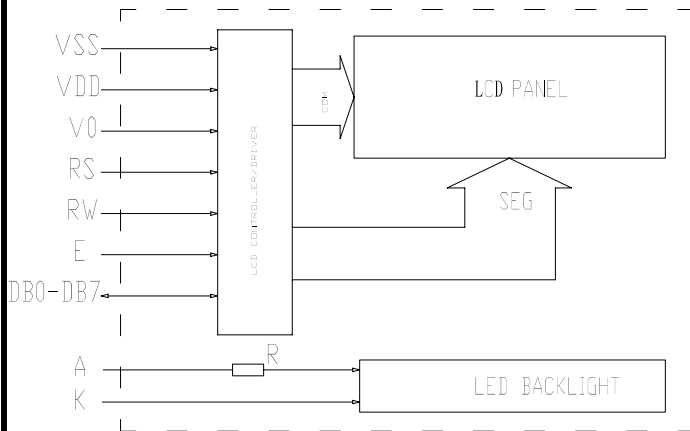
DOTS DETAIL



Display character address code

| Display position | 01 | 02 | --- | 08 | 09 | --- | 15 | 16 |
|------------------|----|----|-----|-----|----|-----|----|-----|
| DDRAM address | 00 | 01 | --- | 07H | 40 | --- | 46 | 47H |

Block diagram



Feature

- 16 character * 1 lines display
- Built-in controller(S6A0069 or compliant)
- with 4-bit or 8-bit parallel interface
- 1/16 Duty cycle, 1/5 Bias.
- Display Mode & Backlight Variations.
- ROHS Compliant

Mechanical thickness

| LCD module | T1 | T2 | Unit |
|------------------|-----|------|------|
| Without or EL | 4.5 | 9.5 | mm |
| Edge backlight | 7.0 | 11.0 | mm |
| Bottom backlight | 8.5 | 13.5 | mm |

Mechanical data

| Item | Standard | Unit |
|----------------|------------|------|
| Module size | 122.0X33.0 | mm |
| View area | 99.0X13.0 | mm |
| Dot size | 0.92X1.10 | mm |
| Character size | 4.84X9.66 | mm |

Maximum Absolute Power Ratings

| Item | Symbol | Standard | | | Unit |
|---------------|-----------------|----------|-----|-----------------|------|
| | | Min | Typ | Max | |
| Input voltage | V _{DD} | -0.3 | --- | 5.5 | V |
| Power supply | V _{in} | -0.3 | --- | V _{DD} | |

Electronical characteristics

| Item | Symbol | Condition | Standard | | | Unit |
|--|------------------|------------------------|----------|-----|-----|------|
| | | | Min | Typ | Max | |
| Operating voltage | V _{DD} | V _{DD} =5.0V | 4.5 | --- | 5.5 | V |
| | | V _{DD} =3.3V | 2.7 | 3.3 | 5.5 | |
| Operating current | I _{DD} | V _{DD} =5.0V | --- | 1.5 | --- | mA |
| Recommended LCD driving voltage for normal temp module | V _{LCD} | T _A =+25 | --- | 4.3 | --- | V |
| | | T _A =0 | --- | 4.5 | --- | |
| | | T _A =-20 | --- | 4.8 | --- | |
| Backlight voltage | V _{LED} | Y-G | --- | 4.2 | --- | V |
| Backlight current | I _{LED} | V _{LED} =4.2V | --- | 180 | --- | mA |
| Operating temperature | T _O | --- | -20 | --- | 70 | |
| Storage temperature | T _S | --- | -30 | --- | 80 | |