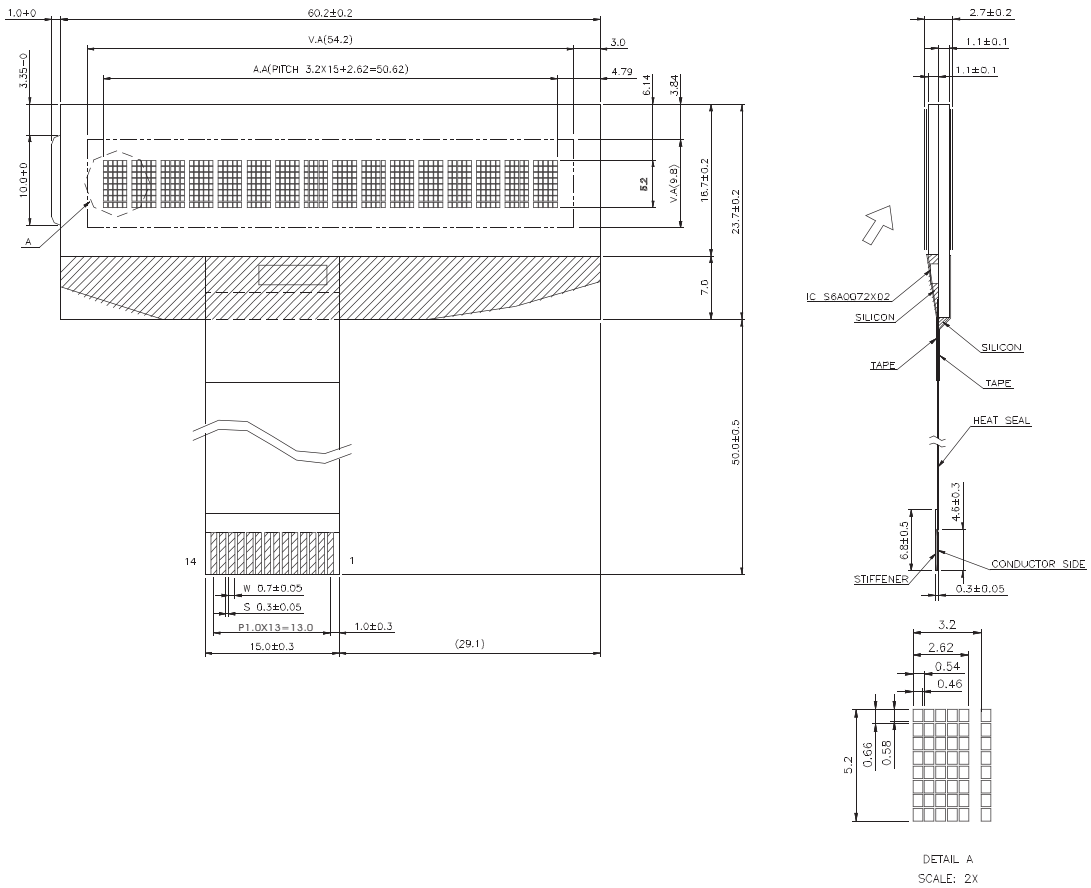


## Features:

- Duty ration: 1/16
- LCD option: TN
- Backlight option: None (-/2.7)
- Controller IC: S6A0072X

| Pin Assignment | | |
|---|---|---|
| 1 | VSS | Ground |
| 2 | Vdd | Power supply (+) |
| 3 | Vo | Contrast Adjust |
| 4 | RS | Register select signal |
| 5 | R/W | Data read/ write |
| 6 | E | Enable signal |
| 7 | DB0 | Data bus |
| 8 | DB1 | Data bus |
| 9 | DB2 | Data bus |
| 10 | DB3 | Data bus |
| 11 | DB4 | Data bus |
| 12 | DB5 | Data bus |
| 13 | DB6 | Data bus |
| 14 | DB7 | Data bus |

**Absolute Maximum Rating**

| Item | Symbol | Condition | Min. | Max. | Units |
|---|---|---|---|---|---|
| Supply for logic voltage | Vdd-Vss | 25˚C | -0.3 | 7 | V |
| LCD driving supply voltage | Vdd-Vee | 25˚C | -0.3 | 13 | V |
| Input voltage | Vin | 25˚C | -0.3 | Vdd+0.3 | V |

**Electrical Characteristics**

| Item | Symbol | Condition | Min. | | Typical | | Max. | | Units |
|---|---|---|---|---|---|---|---|---|---|
| Power supply voltage | Vdd-Vss | 25˚C | 2.7 | | – | | 4.5 | | V |
| LCD operation voltage | Vop | Top | N | W | N | W | N | W | V |
| | | -20˚C | – | – | – | – | – | – | V |
| | | 0˚C | – | – | – | – | – | – | V |
| | | 25˚C | – | – | 3.7 | – | – | – | V |
| | | 50˚C | – | – | – | – | – | – | V |
| | | 70˚C | – | – | – | – | – | – | V |
| LCM current consumption (No B/L) | Idd | Vdd=5.0V | – | | 1.2 | | – | | mA |
| Backlight current consumption | LED/edge | VB/L=4.2V | – | | – | | – | | mA |
| | LED/array | VB/L=4.2V | – | | – | | – | | mA |