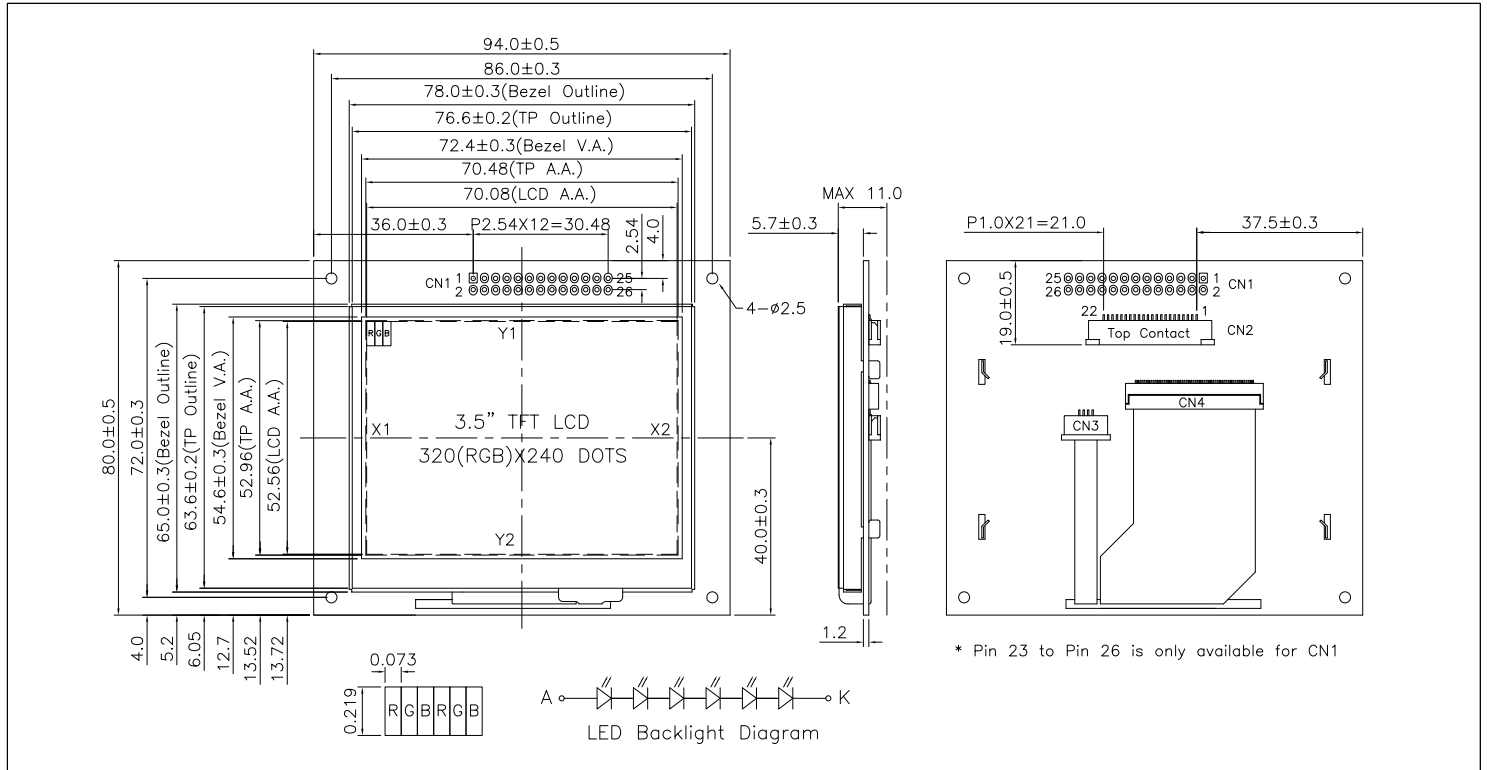


# LT035B-33BTC

3.5" 320(RGB) x 240 TFT with MCU interface & touch panel controller, VDD=3.3V



## ABSOLUTE MAXIMUM RATINGS

| Item                  | Symbol                            | Min. | Max.                  | Unit |
|-----------------------|-----------------------------------|------|-----------------------|------|
| Supply Voltage(Logic) | V <sub>DD</sub> - V <sub>SS</sub> | -0.3 | 4.0                   | V    |
| Input Voltage         | V <sub>I</sub>                    | -0.3 | V <sub>DD</sub> + 0.3 | V    |
| Operating Temp.       | T <sub>opr</sub>                  | -20  | 70                    | °C   |
| Storage Temp.         | T <sub>stg</sub>                  | -30  | 80                    | °C   |

## MECHANICAL DATA

| Item                      | Nominal Dimensions | Unit |
|---------------------------|--------------------|------|
| Module Size ( W x H x T ) | 94.0 x 80.0 x 11.0 | mm   |
| Viewing Area ( W x H )    | 72.4 x 54.6        | mm   |
| Active Area ( W x H )     | 70.08 x 52.56      | mm   |
| Dot Pitch ( W x H )       | 0.073 x 0.219      | mm   |
| Weight                    | Approx. 72         | g    |

## ELECTRICAL CHARACTERISTICS ( V<sub>DD</sub>=3.3V±0.3V )

| Item                               | Symbol          | Test Condition         | Min.               | Typ. | Max.               | Unit |
|------------------------------------|-----------------|------------------------|--------------------|------|--------------------|------|
| Input High Voltage                 | V <sub>IH</sub> | --                     | 0.9V <sub>DD</sub> | --   | V <sub>DD</sub>    | V    |
| Input Low Voltage                  | V <sub>IL</sub> | --                     | 0                  | --   | 0.1V <sub>DD</sub> | V    |
| Supply Current (LED is turned on)  | I <sub>DD</sub> | V <sub>DD</sub> = 3.3V | --                 | 160  | 250                | mA   |
| Supply Current (LED is turned off) | I <sub>DD</sub> | V <sub>DD</sub> = 3.3V | --                 | 60   | 90                 | mA   |

## PIN CONNECTIONS (CN1/CN2)

| Pin | Symbol          | Level | Function  |
|-----|-----------------|-------|---|
| 1   | V <sub>SS</sub> | 0V    | GND   |
| 2   | V <sub>DD</sub> | +3.3V | Power supply  |
| 3   | BL              | H/L   | LED backlight control signal<br>H: LED on L: LED off    |
| 4   | D/C             | H/L   | Data or command selection<br>H: Display data L: Command |
| 5   | /WR             | L     | Write signal. Active "L".                               |
| 6   | /RD             | L     | Read signal. Active "L".                                |
| 7   | DB0             | H/L   | Data bus  |
| 8   | DB1             | H/L   |   |
| 9   | DB2             | H/L   |   |
| 10  | DB3             | H/L   |   |
| 11  | DB4             | H/L   |   |
| 12  | DB5             | H/L   |   |
| 13  | DB6             | H/L   |   |
| 14  | DB7             | H/L   |   |
| 15  | /CS             | H>L   | Chip enable signal. Active at falling edge.             |
| 16  | /RST            | L     | Reset signal. Active "L".                               |
| 17  | DCLK            | --    | DCLK signal of ADS7846                                  |
| 18  | /TPCS           | --    | /CS signal of ADS7846                                   |
| 19  | DIN             | --    | DIN signal of ADS7846                                   |
| 20  | DOUT            | --    | DOUT signal of ADS7846                                  |
| 21  | BUSY            | --    | BUSY signal of ADS7846                                  |
| 22  | /PENIRQ         | --    | /PENIRQ signal of ADS7846                               |

## BLOCK DIAGRAM

