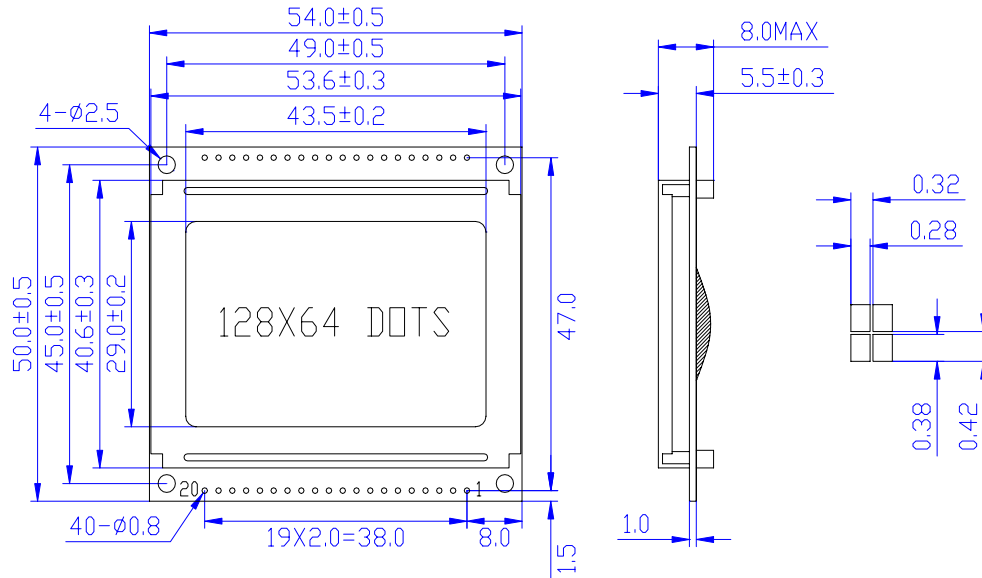


# YLF12864I-1

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## MECHANICAL DATA

| Item               | Nominal Dimensions | Unit |
|--------------------|--------------------|------|
| Module Size(W×H×T) | 54.0×50.0×8.0      | mm   |
| Viewing Area(W×H)  | 43.5×29.0          | mm   |
| Dot Pitch(W×H)     | 0.32×0.42          | mm   |
| Dot Size(W×H)      | 0.28×0.38          | mm   |

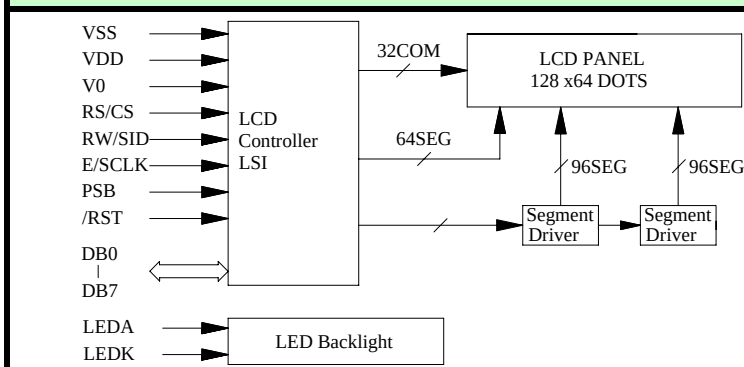
## ABSOLUTE MAXIMUM RATINGS

| Item              | Symbol           | Min | Type | Max | Unit |
|-------------------|------------------|-----|------|-----|------|
| Operating Voltage | VDD              | 4.5 | 5.0  | 5.5 | V    |
| Operating Current | IDD              | 4.5 | 5.3  | 6.1 | mA   |
| LED Voltage       | V <sub>LED</sub> | 4.5 | 5.0  | 5.5 | V    |
| LED Current       | I <sub>LED</sub> | 52  | 62   | 74  | mA   |
| Operating Temp.   | Topr             | -20 | —    | +70 | °C   |
| Storage Temp.     | Tsto             | -30 | —    | +80 | °C   |

## ELECTRICAL CHARACTERISTICS

| Item                 | Symbol          | Min    | Type | Max | Unit |
|----------------------|-----------------|--------|------|-----|------|
| Input Hight Voltage  | V <sub>IH</sub> | 0.7VDD | —    | VDD | V    |
| Input Low Voltage    | V <sub>IL</sub> | 0      | —    | 0.6 | V    |
| Output Hight Voltage | V <sub>OH</sub> | 0.8VDD | —    | VDD | V    |
| Output Low Voltage   | V <sub>OL</sub> | 0      | —    | 0.4 | V    |

## BLOCK DIAGRAM



## PIN CONNECTIONS

| PIN | Symbol | Level | Function                                  |
|-----|--------|-------|-------------------------------------------|
| 1   | VSS    | —     | GND(0V)                                   |
| 2   | VDD    | —     | Supply Voltage for Logic(+5V)             |
| 3   | V0     | —     | Power supply for LCD                      |
| 4   | RS/CS  | H/L   | H: Data ; L: Instruction Code/Chip select |
| 5   | RW/SID | H/L   | H: Read; L: Write(Parallel)/Data(Serial)  |
| 6   | E/SCLK | H/L   | Enable Signal(Parallel) / Serial Clock    |
| 7   | DB0    | H/L   | Data Bus Line                             |
| 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  | PSB    | H/L   | H:Parallel Mode; L:Serial Mode            |
| 16  | NC     | —     | NO Connect                                |
| 17  | /RST   | L     | Reset Signal (Active LOW )                |
| 18  | VOUT   | —     | Voltage Doubler Ouput(Active Doubler)     |
| 19  | LEDA   | —     | Backlight Power (+5V)                     |
| 20  | LEDK   | —     | Backlight Power (0V)                      |

## POWER SUPPLY

