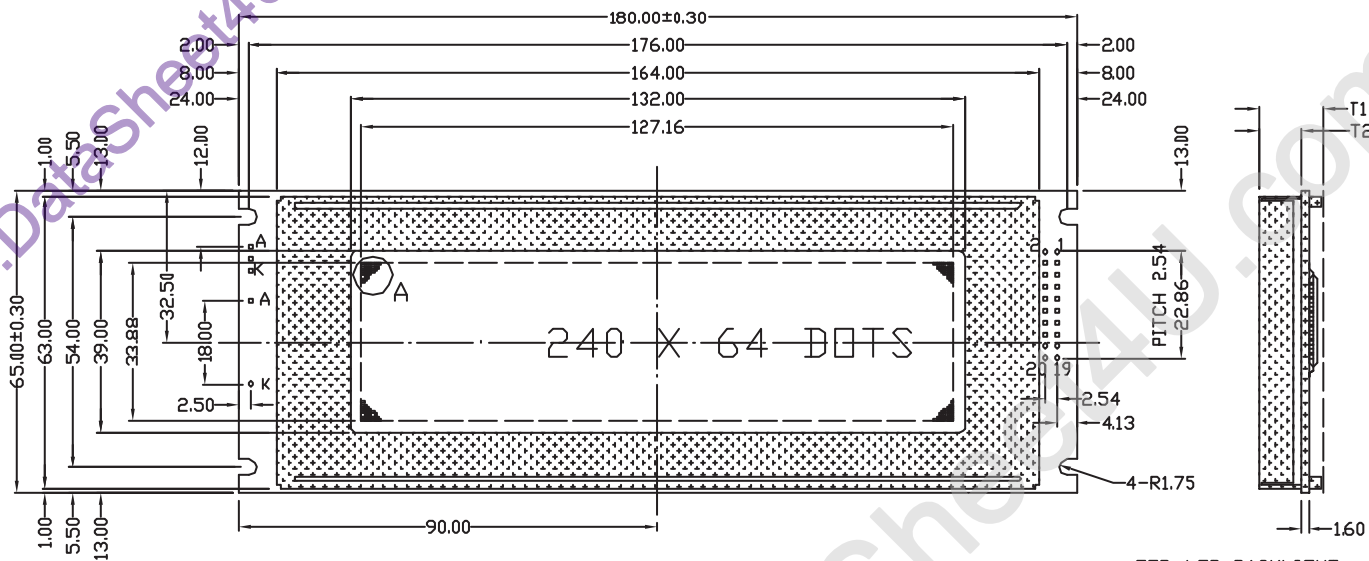
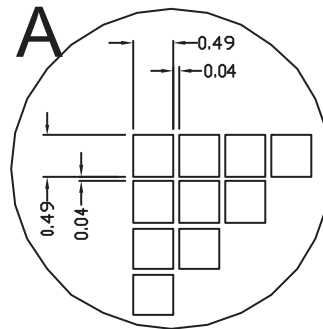
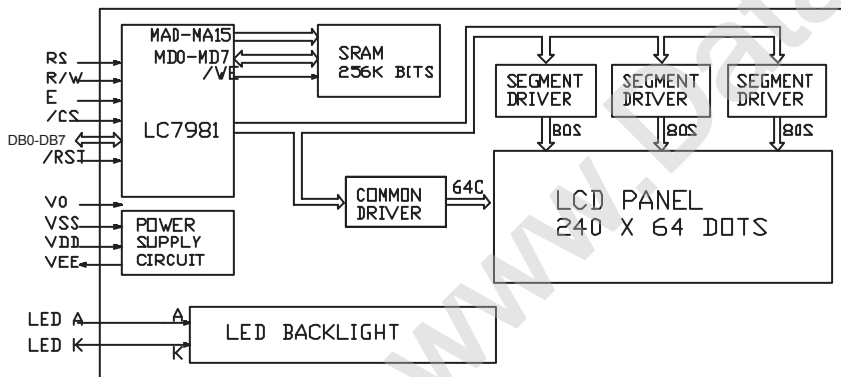


液晶之友 电话: 020-33819057  
Http://www.lcdfriends.com



```
* FOR LED BACKLIGHT
TH1=14.0MAX  TH2=9.0MAX
* FOR EL OR NO BACKLIGHT
TH1=11.0MAX  TH2=6.0MAX
```



## REVISIONS

|     |          |      |             |
|-----|----------|------|-------------|
| NO. | DATE     | BY   | DESCRIPTION |
| 1   | 01/06/18 | A.CH | NEW RELEASE |
|     |          |      |             |

|                 |
|-----------------|
| PINS ASSIGNMENT |
|-----------------|

| NO.  | SYMBOL  | DESCRIPTION                   |
|------|---------|-------------------------------|
| 1    | VSS     | POWER SUPPLY: GROUND          |
| 2    | VDD     | POWER SUPPLY (+)              |
| 3    | VO      | CONTRAST ADJUST               |
| 4    | RS      | COMMAND/DATA SELECT           |
| 5    | R/W     | DATA READ/WRITE               |
| 6    | E       | ENABLE SIGNAL                 |
| 7-14 | DB0-DB7 | DATA BUS                      |
| 15   | /CS     | CHIP SELECT: LOW EFFECT       |
| 16   | /RST    | RESET: LOW EFFECT             |
| 17   | VEE     | NEGATIVE VOLTAGE OUTPUT(-10V) |
| 18   | NC      | NO CONNECTION                 |
| 19   | LEDA    | POWER SUPPLY FOR BACKLIGHT(+) |
| 20   | LEDK    | POWER SUPPLY FOR BACKLIGHT(-) |

**ABSOLUTE MAXIMUM RATING**

| ITEM                    | SYMBOL  | MIN  | MAX     | UNIT |
|-------------------------|---------|------|---------|------|
| POWER SUPPLY(LOGIC)     | VDD-VSS | -0.3 | 7.0     | V    |
| POWER SUPPLY(LCD DRIVE) | VDD-VEE | 0    | 22.0    | V    |
| INPUT VOLTAGE           | VI      | -0.3 | VDD-0.3 | V    |

## ELECTRICAL CHARACTERISTICS

| ITEM                  | SYMBOL  | MIN    | TYP  | MAX    | UNIT |
|-----------------------|---------|--------|------|--------|------|
| VOLTAGE FOR LOGIC     | VDD-VSS | 4.75   | 5.0  | 5.25   | V    |
| SUPPLY CURRENT        | IDD     | -      | 8.7  | -      | mA   |
| LCI OPERATING VOLTAGE | VDD-V0  | -      | 14.5 | -      | V    |
|                       |         | -      | 135  | -      | V    |
|                       |         | -      | 130  | -      | V    |
| INPUT VOLTAGE         | VIH     | 0.7VDD | -    | VDD    | V    |
|                       | VIL     | 0      | -    | 0.3VDD | V    |

## MECHANICAL SPECIFICATIONS

| ITEM         | SPECIFICATION                  | UNIT |
|--------------|--------------------------------|------|
| OVERALL SIZE | 1800W x 65.0H x 14.0D(11.5) MM | MM   |
| VIEWING AREA | 132.0W x 39.0H                 | MM   |
| DOT NUMBER   | 240 x 64                       | DOTS |
| DOT SIZE     | 0.49W x 0.49H                  | MM   |
| DOT PITCH    | 0.53W x 0.53H                  | MM   |

## OPTIONS

1. LCD TYPE: Y/G STN; GRAY STN; B/V FSTN  
2. BACKLIGHT: WITHOUT BACKLIGHT; LED; EL  
3. COLOR OF BACKLIGHT: B, BLU, WHITE  
4. TEMPERATURE RANGE: NORMAL(0~50°C);  
EXTENDED(-20~70°C)  
5. POWER SUPPLY: ON BOARD DC/DC(SINGLE 3.0V);  
DUAL POWER SUPPLY(5.0V & -10.0V)  
6. VIEWING ANGLE: 64°; 12H