Ckingway

# SPECIFICATION

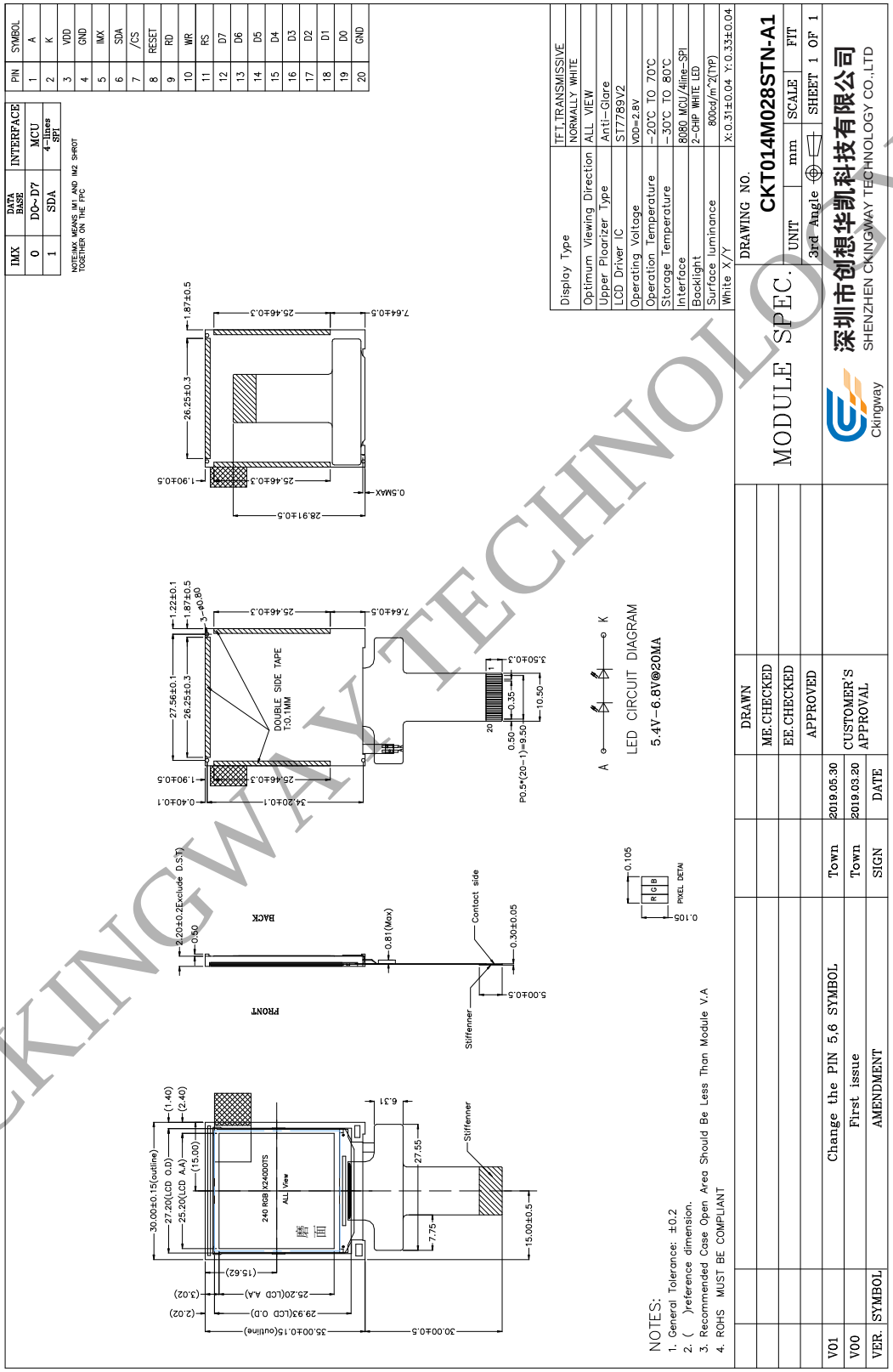
**LCD Number: CKT014M028STN-A1**

| | | | |
|---|---|---|---|
| CUSTOMER APPROVED | PREPARE BY | CHECK BY | APPROVED BY |
| | | | |
| | | | |
| SUPPLIER APPROVED | PREPARE BY | CHECK BY | APPROVED BY |
| | | | |

# 1. General Specification

| Item | Contents | Unit |
|---|---|---|
| LCD TYPE | TFT/TRANSMISSIVE | |
| MODULE SIZE (W*H*T) | 30.00*35.00*2.20 | MM |
| ACTIVE SIZE (W*H) | 25.20*25.20 | MM |
| PIXEL PITCH (W*H) | 0.105*0.105 | MM |
| NUMBER OF DOTS | 240*240 | |
| DRIVER IC | ST7789V2 | |
| INTERFACE TYPE | 8080 MCU/4line-SPI | |
| TOP POLARIZER TYPE | ANTI-GLARE | |
| RECOMMEND VIEWING DIRECTION | ALL | O'CLOCK |
| GRAY SCALE INVERSION DIRECTION | - | O'CLOCK |
| BACKLIGHT TYPE | 2-DIES WHITE LED | |
| TOUCH PANEL TYPE | WITHOUT | |

# 2. Mechanical Drawing



# 3. Interface Pin Function

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | LEDA | Anode of LED backlight. |
| 2 | LEDK | Cathode of LED backlight. |
| 3 | VDD | Power supply |
| 4 | GND | Power ground |
| 5 | IMX | <table><tr><td>IMX</td><td>DATA BASE</td><td>INTERFACE</td></tr><tr><td>0</td><td>D0~D7</td><td>MCU</td></tr><tr><td>1</td><td>SDA</td><td>4-lines SPI</td></tr></table> NOTE:IMX MEANS IM1 AND IM2 SHROT TOGETHER ON THE FPC |
| 6 | SDA | When IM3: Low, SPI interface input/output pin.<br>When IM3: High, SPI interface input pin.<br>The data is latched on the rising edge of the SCL signal.<br>If not used, please fix this pin at VDDI or DGND level. |
| 7 | /CS | Chip selection pin<br>Low enable.<br>High disable. |
| 8 | RESET | This signal will reset the device and it must be applied to properly initialize the chip.<br>Signal is active low. |
| 9 | RD | Read enable in 8080 MCU parallel interface.<br>If not used, please fix this pin at VDDI or DGND. |
| 10 | WR | Write enable in MCU parallel interface.<br>Display data/command selection pin in 4-line serial interface.<br>Second Data lane in 2 data lane serial interface.<br>If not used, please fix this pin at VDDI or DGND. |
| 11 | RS | A register select signal.<br>Low: select an index or status register,<br>High: select a control register. |
| 12 | D7 | Data bus. |
| 13 | D6 | Data bus. |
| 14 | D5 | Data bus. |
| 15 | D4 | Data bus. |
| 16 | D3 | Data bus. |
| 17 | D2 | Data bus. |
| 18 | D1 | Data bus. |
| 19 | D0 | Data bus. |
| 20 | GND | Power ground. |