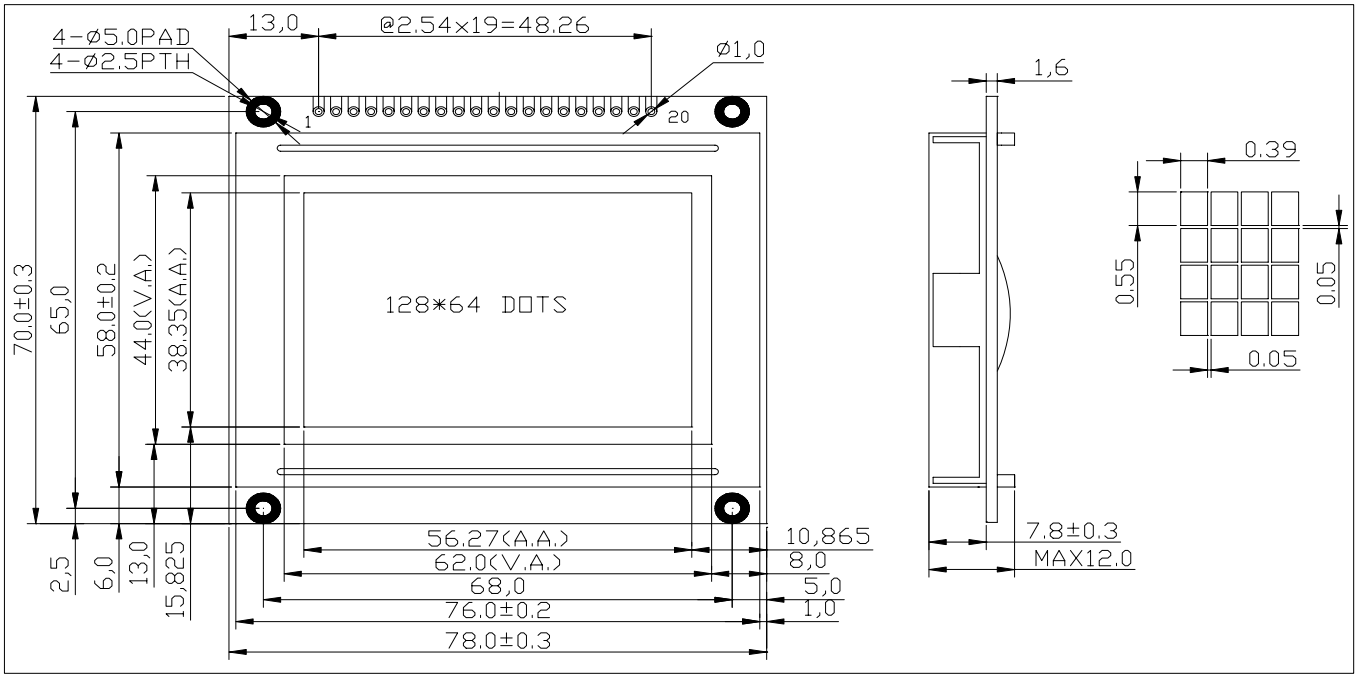
# HG1286410B 1/64DUTY 1/9BIAS




**PIN CONNECTIONS**

| Pin | Symbol | Level | Function |
|---|---|---|---|
| 1 | FG | - | Frame ground |
| 2 | $V_{SS}$ | 0V | GND |
| 3 | $V_{DD}$ | +5V | Power supply for logic |
| 4 | $V_O$ | - | Operating voltage for LCD |
| 5 | /WR | L | Write signal |
| 6 | /RD | L | Read signal |
| 7 | /CE | L | Chip enable signal |
| 8 | C/D | H/L | "L" Data, "H" Instruction code |
| 9 | /REST | L | Reset signal ,active "L" |
| 10 \| 17 | DB0 \| DB7 | H/L | Data bus line |
| 18 | FS | H/L | Font selection: L:8x8,H:6X8 |
| 19 | LEDK | 0V | Power supply for LED backlight |
| 20 | LEDA | +5V | |

*NOTES:*

1. Built-in T6963C controller
2. Temperature compensation optional
3. +5V/+3.3V power supply optional

**MECHANICAL DATA**

| Item | Nominal Dimensions | Unit |
|---|---|---|
| Module Size（W x H X T） | 78.0X70.0X12.0 | mm |
| Viewing Area (W x H ) | 62.0X44.0 | mm |
| Dot Pitch (W x H ) | 0.44X0.60 | mm |
| Dot Size (W x H ) | 0.39X0.55 | mm |

**ABSOLUTE MAXIMUM RATINGS**

| Item | Symbol | Min. | Max. | Unit |
|---|---|---|---|---|
| Supply Voltage (Logic) | $V_{DD}$-$V_{SS}$ | -0.3 | 7.0 | V |
| Supply Voltage (LCD) | $V_{DD}$-$V_O$ | -0.3 | 17.5 | V |
| Input Voltage | $V_I$ | -0.3 | $V_{DD}$+0.3 | V |
| Operating Temp. | $T_{OPR}$ | -20 | 70 | ℃ |
| Storage Temp. | $T_{STG}$ | -30 | 80 | ℃ |

**ELECTRICAL CHARACTERISTICS ( $V_{DD}$=5.0V, Ta=25℃ )**

| Item | Symbol | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|
| Input High Voltage | $V_{IH}$ | $V_{DD}$-2.2 | - | $V_{DD}$ | V |
| Input Low Voltage | $V_{IL}$ | 0 | - | 0.8 | V |
| Output High Voltage | $V_{OH}$ | $V_{DD}$-0.3 | - | $V_{DD}$ | V |
| Output Low Voltage | $V_{OL}$ | 0 | - | 0.3 | V |
| Supply Current | $I_{DD}$ | - | 6 | 8 | mA |
| LCD Driving Voltage | $V_{DD}$-$V_0$ | - | 9 | - | V |

**LED BACKLIGHT SPECIFICATIONS ( Ta=25℃ )**

| Item | Forward Voltage | Forward Current |
|---|---|---|
| YELLOW-GREEN | 4.1V | 440mA |
| White | 3.1V | 60mA |