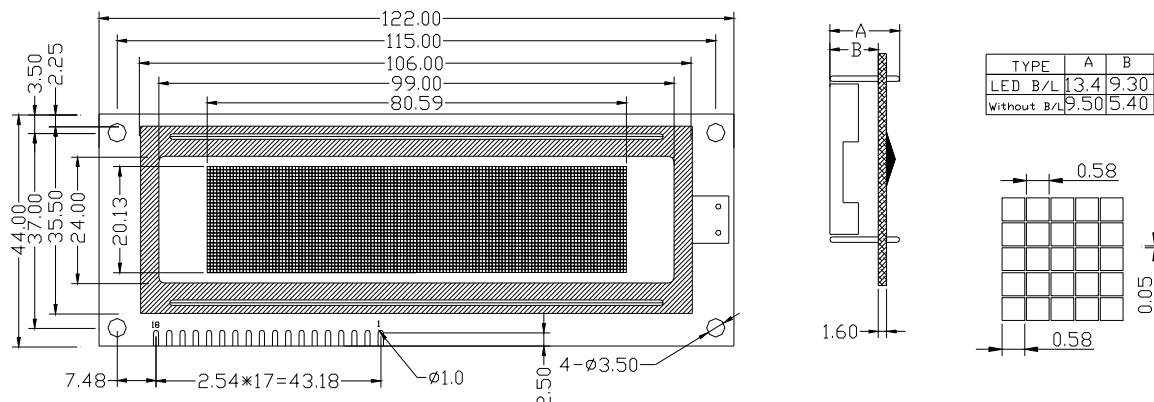


EXTERNAL DIMENSIONS AND DISPLAY PATTERN



MECHANICAL DATA (Nominal dimensions)

ITEM	SPECIFICATION	UNIT
Module Size(WxH)	122.0X44.0	mm
Viewing Area(WxH)	99.0X24.0	mm
Internal Area(WxH)	80.59X20.13	mm
Dot pitch(WxH)	0.63X0.63	mm
Dot Size(WxH)	0.58X0.58	mm
DOTS	128X32	dot

Absolute Maximum Ratings

Item	Symbol	Condition	Standard Value		unit
			min	max	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	$T_a=25^{\circ}\text{C}$	0	5.0	V
Supply Voltage for LCD	$V_{DD}-V_0$		0	5.0	V
Input Voltage	V_I		0	V_{DD}	V

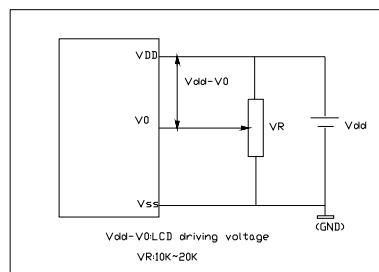
PIN CONFIGURATION

ITEM	SYMBOL	Level	DESCRIPTION
1	VLED+	+5V	Backlight Power supply(+)
2	VLED-	0V	Backlight Power supply(-)
3	V_0	-	For LCD drive voltage
4	VCC	5.0V	Power supply
5	VSS	0V	Ground
6	E	H,H/L	Enable signal
7	D/I	H/L	Data;Instruction code
8	R/W	H/L	H:Read signal L:Write signal
9	CS	H/L	Chip select signal:cs="H" for left half screen
10	RET	L	Reset signal,RET=0 effective
11-18	DB0-DB7	-	Data bus

ELECTRICAL CHARACTERISTICS

Power supply

Item	Symbol	Condition	Standard value			Unit
			min.	typ.	max.	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	-	4.5	5.0	5.5	V
Supply Voltage for LCD	$V_{DD}-V_0$	-	4.5	5.0	5.5	V
Input high Voltage	V_{IH}	-	$0.7V_{DD}$	-	V_{DD}	V
Input low Voltage	V_{IL}	-	0	-	$0.3V_{DD}$	V
Supply Current for Logic	V_{OH}	$-I_{OH}=0.2\text{mA}$	-	6.0	-	mA
Supply Current for LCD	V_{OL}	$I_{OL}=1.2\text{mA}$	-	2.0	-	mA
With B/L	I_{LED}	$V_{DD}=5.0\text{V}$	-	180	-	mA
Drive method	1/32Duty		1/5Bias			



Block diagram

