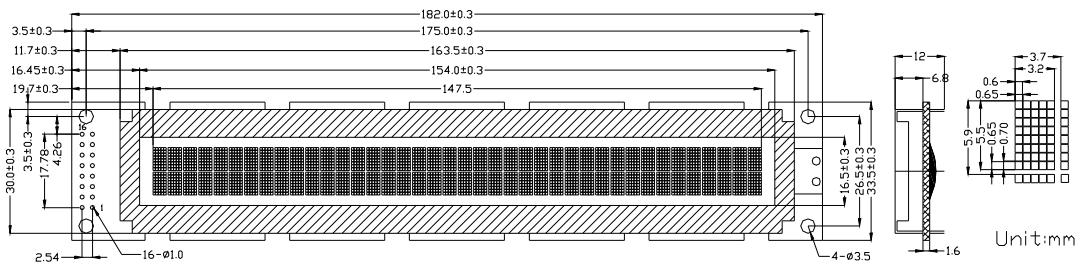


EXTERNAL DIMENSIONS AND DISPLAY PATTERN



MECHANICAL DATA (Nominal dimensions)

ITEM	SPECIFICATION	UNIT
Module Size(WxH)	182.0x33.5	mm
Viewing Area(WxH)	154.0x16.5	mm
Internal Area(WxH)	147.5x11.5	mm
Dot pitch(WxH)	0.65x0.70	mm
Dot Size(WxH)	0.60x0.65	mm
Character Pitch(WxH)	3.7x5.9	mm
Character Size(WxH)	3.2x5.5	mm
Number of character	40characterx2line	char

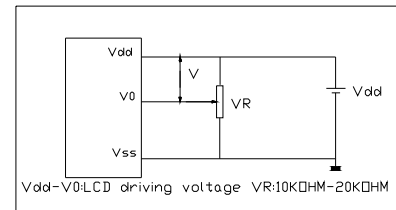
PIN CONFIGURATION

ITEM	SYMBOL	LEVEL	DESCRIPTION
1	VSS	-	Ground
2	VDD	-	Power supply for LCD
3	V0	-	
4	RS	H/L	
5	R/W	H/L	H:Data read
6	E	H, H->L	Enable signal
7-14	DB0-DB7	H/L	Data bus
15	LED+	+5V	
16	LED-	0V	

ELECTRICAL CHARACTERISTICS

Item	Symbol	Test 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	$V_{DD}-V_0$	-	0	-	5.0	V
Input high Voltage	V_{IH}	-	2.2	-	V_{DD}	V
Input low Voltage	V_{IL}	-	-0.3	-	0.6	V
Output high Voltage	V_{OH}	$-I_{OH}=0.2mA$	2.4	-	-	V
Output low Voltage	V_{OL}	$I_{OL}=1.2mA$	-	-	0.4	V
Power Supply Current	I_{DD}	$V_{DD}=5.0V$	-	2.0	5.0	mA
With B/L	I_{LED}	$V_{DD}=5.0V$	-	150	-	mA
Drive method	1/16Duty		1/5Bias			

Power supply



Block diagram

