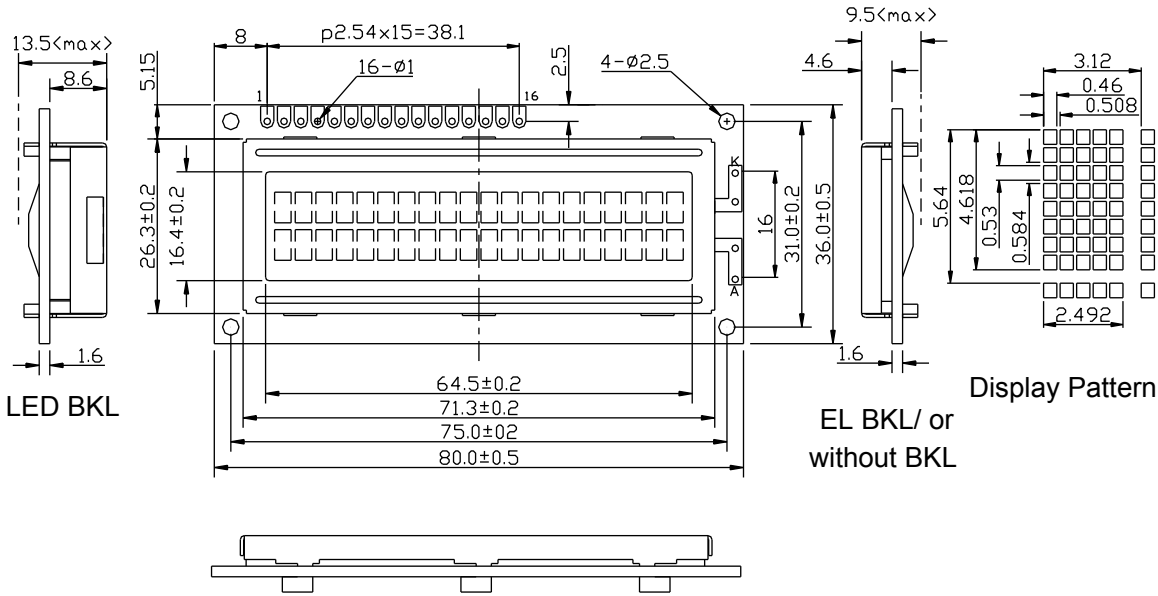




**Outline Dimension**



**Feature**

1. 5X8 dots with cursor
2. Built-in controller (KS0066U or Equivalent)
3. +5V power supply(Also available for +3.0V)
4. 1/8 duty cycle
5. BKL to be driven by pin1 or pin15,pin16 or A,K
6. N.V.optional

**Interface pin connections**

PIN NO	Symbol	Function
1	VSS	Power supply
2	VDD	
3	V0	
4	RS	H/L Register select signal
5	R/W	H/L Read/Write signal
6	E	H/L Enable signal
7	DB0	H/L Data bus for 4 bit or 8 bit mode
8	DB1	
9	DB2	
10	DB3	
11	DB4	
12	DB5	
13	DB6	
14	DB7	
15	LED+	+4.2V for BKL
16	LED-	Power supply for BKL(0V)

**Mechanical Data**

Item	Standard	Unit
Module dimension	80.0x36.0	mm
Viewing area	64.5x16.4	mm
Dot size	0.46x0.53	mm
Character size	2.492x4.618	mm

**Absolute Maximum Rating**

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	-----	7.0	V
Input voltage	VI	-0.3	-----	VDD+0.3	

**Electronical characteristics**

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+5V	4.5	5.0	5.5	V
		+3.3V	2.7	3.0	5.3	V
Supply current	I <sub>DD</sub>	VDD=5V	-----	1.5	3.0	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	-----	-----	-----	V
		0 °C	4.7	4.7	5.0	
		25°C	4.3	4.5	4.7	
		50°C	4.1	4.3	4.5	
LED forward voltage	V <sub>F</sub>	25°C	-----	4.2	4.6	V
LED forward current	I <sub>F</sub>	V <sub>F</sub> =4.2V	-----	300	-----	mA
EL power supply current	I <sub>EL</sub>	V <sub>EL</sub> =110V AC 400Hz	-----	-----	-----	mA

**Display character address code:**

Display position

1	2	3	4	5	---	---	---	---	18	19	20
00	01	02	---	---	---	---	---	---	11	12	13H
40	41	42	---	---	---	---	---	---	51	52	53H