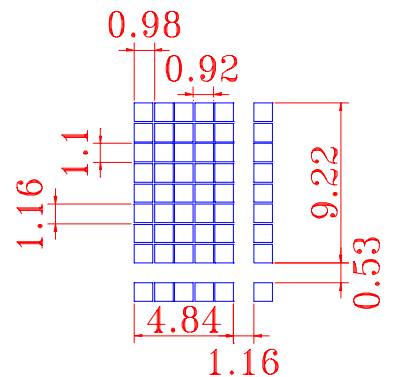


- Feature:**
1. 5x8 Dots with cursor
  2. Built-in controller (KS0066U or Equivalent)
  3. +5V power supply (also available for +3.0V)
  4. 1/16 duty cycle
  5. BKL to be driven by pin1, pin2, or pin15, pin16, or A,K



Display Pattern

**Interface Pin Connections**

NO	SYM	FUNCTION	NO	SYM	FUNCTION
1	V <sub>SS</sub>	GND	9	DB <sub>2</sub>	H/L Data bus line
2	V <sub>DD</sub>	5V	10	DB <sub>3</sub>	H/L Data bus line
3	V <sub>0</sub>	CONTRAST ADJUSTMENT	11	DB <sub>4</sub>	H/L Data bus line
4	RS	H/L REGISTER SELECT SIGNAL	12	DB <sub>5</sub>	H/L Data bus line
5	R/W	H/L READ/WRITE SIGNAL	13	DB <sub>6</sub>	H/L Data bus line
6	E	H/L ENABLE SIGNAL	14	DB <sub>7</sub>	H/L Data bus line
7	DB <sub>0</sub>	H/L Data bus line	15	LED+	+4.2V For Backlight
8	DB <sub>1</sub>	H/L Data bus line	16	LED-	Power supply for BKL(0V)

**Absolute Maximum Rating**

ITEM	SYMBOL	MIN	TYP	MAX	UN
POWER SUPPLY	V <sub>DD</sub> -V <sub>SS</sub>	-0.3	---	7.0	V
INPUT VOLTAGE	V <sub>I</sub>	-0.3	---	V <sub>DD</sub> +0.3	

**Electrical Characteristics**

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT VOLTAGE	V <sub>DD</sub>		4.5	5.0	5.5	V
			2.7	3.0	3.3	V
SUPPLY CURRENT	I <sub>DD</sub>	V <sub>DD</sub> = 5V	---	1.5	3.5	mA
RECOMMENDED LCD DRIVING VOLTAGE FOR NORMAL TEMPERATURE VERSION MODULE	V <sub>DD</sub> -V <sub>O</sub>	-20°C	---	---	---	V
		0°C	4.7	5.0	5.5	
		25°C	4.3	4.5	4.7	
		50°C	4.1	4.3	4.5	
		70°C	---	---	---	
LED BKL VOLTAGE	V <sub>F</sub>	25°C	---	4.2	4.6	V
LED BKL CURRENT	I <sub>F</sub>	V <sub>F</sub> =4.2V	---	500	---	mA

**DISPLAY CHARACTER ADDRESS CODE:**

Display position	1	---	16	17	18	19	20
DDRAM address	00	---	0F	10	11	12	13
DDRAM address	40	---	4F	50	51	52	53
DDRAM address	14	---	23	24	25	26	27
DDRAM address	54	---	63	64	65	66	67