



Pin connections

PIN NO	Symbol
1	VSS
2	VDD
3	V0
4	RS
5	RW
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Input voltage	VI	-0.3	-----	5.5	V
Power supply	VDD-VSS	-0.3	-----	VDD	

Electronical characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+5V	4.7	5.0	5.5	V
		+3.3V	2.7	3.3	5.3	V
Supply current	IDD	VDD=5V	-----	1.5	3	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	4.8	5.0	5.3	V
		0 °C	4.6	4.8	5.0	
		25°C	4.3	4.5	4.7	
		50°C	4.2	4.3	4.5	
LED forward voltage	VF	25°C	-----	4.2	5.0	V
LED forward current	IF	25°C	-----	120	-----	mA
EL power supply current	IEL	VEL=110V AC 400Hz	-----	-----	-----	mA

Display character address code

Display position

1 2 3 --- --- --- --- 7 8
DDRAM address 00 01 02 --- --- --- --- 06 07H

Feature

- 1-line x8 characters display; 5x8 dots with cursor
- Built-in controller (KS0066U or Equivalent)
- +5V power supply(Also available for +3.3V)
- 1/16 duty cycle;1/5bias;
- TN, HTN, STN or FSTN mode
- BKL to be driven by pin1,pin2,or pin15,pin16,or A,K

Mechanical thickness

LCD module thickness	T1	T2	UNIT
Without or EL backlight	4.7	10.0	mm
With edge LED backlight	----	----	mm
With LED bottom backlight	8.6	13.5	mm

Mechanical data

Item	Standard	Unit
Module dimension	84.0x44.0	mm
Viewing area	61.0x15.8	mm
Dot size	1.25x1.30	mm
Character size	7.15x10.75	mm

Block diagram:

