



### Feature

1. 5x7 dots with cursor
2. Built-in controller (KS0066 or Equivalent)
3. +5V power supply
4. 1/16 duty cycle
5. LED can be driven by pin1, pin2, or pin15, pin16 or A.K
6. N.V Optional for +3V power supply.

### Pin Assignment

Pin#	Symbol	Function
1	Vss	GND
2	Vdd	+5V
3	Vo	Contrast Adjustment
4	RS	H/L Register select signal
5	R/W	H/L Read/write signal
6	E	H→L Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	A/Vee	Power supply for LED (+4.2V)
16	K	Power supply for B/L (0V)

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	122.0 x 33.0	mm
Viewing Area	99.0 x 13.0	mm
Dot Size	0.92 x 1.10	mm
Character Size	4.84 x 8.06	mm

### Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	--	7.0	V
Input Voltage	VI	-0.3	--	VDD	V

NOTE: VSS=0 Volt, VDD=5.0 Volt.

### Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	VDD=+5V	4.7	5.0	5.3	V
Supply Current	IDD	VDD=5V	--	1.2	1.4	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20°C	4.9	5.1	5.5	V
		0°C	4.5	4.8	5.1	
		25°C	4.1	4.5	4.7	
		50°C	3.8	4.2	4.4	
LED Forward Voltage	VF	25°C	--	4.2	4.6	V
LED Forward Current	IF	25°C	--	160	--	mA