



### Feature

1. 5x8 dots includes cursor
2. Built-in controller (KS0066 or Equivalent)
3. +5V power supply (Also available for +3V)
4. 1/16 duty cycle
5. LED to be driven by pin1, pin2, or pin15, pin16 or A.K
6. Negative voltage option for +3V power supply

### Pin Assignment

Pin#	Symbol	Function
1	Vss	GND
2	Vdd	+3V or +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	+4.2v for LED(RA=0Ω) Negative Voltage output
16	K	Power supply for B/L (0V)

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	84.0 x 44.0	mm
Viewing Area	66.0 x 16.0	mm
Dot Size	0.55 x 0.65	mm
Character Size	2.95 x 5.55	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	
		VDD=+3V	2.7	3.0	5.3	V	
Supply Current	IDD	VDD=5V	--	1.2	1.5	mA	
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20°C	4.6	5.0	5.4	V	
		0°C	4.2	4.6	5.0		
		25°C	3.8	4.2	4.6		
		50°C	3.6	4.0	4.4		
LED Forward Voltage	VF	25°C	--	4.2	4.6	V	
LED Forward Current	IF	25°C	Array	--	130	260	mA
			Edge	--	20	40	
EL Power Supply Current	IEL	Vel=110VAC;400Hz	--	--	5.0	mA	

### Display Character Address Code

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01														0F
DD RAM Address	40	41														4F