



**Feature**

- 1. 16x2 character includes cursor
- 2. Built-in controller (ST7066 or Equivalent)
- 3. +5V power supply (Also available for +3V)
- 4. 1/16 duty cycle
- 5. LED can be driven by pin1, pin2, or A and K

**Terminal Function**

Pin No.	Symbol	Function
1	V <sub>SS</sub>	GND
2	V <sub>DD</sub>	Supply voltage for logic
3	V <sub>0</sub>	Contrast Adjustment
4	RS	Register select signal
5	R/W	Read / write signal
6	E	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/V <sub>ee</sub>	Backlight LED+/Negative Voltage output
16	K	Backlight LED-

**Mechanical Data**

Item	Value	Unit
Outline	122.0 x 44.0	mm
Viewing Area	99.0 x 24.0	mm
Active Area	94.84x 20.0	mm
Dot Size	0.92 x 1.1	mm
Dot Pitch	0.98 x 1.16	mm

**Electrical Characteristics**

Item	Symbol	Min	Typ	Max
Operating Voltage(V)	V <sub>DD</sub>	4.7	5.0	5.3
Supply Voltage For LCD	V <sub>DD</sub> -V <sub>0</sub>	-	4.2	-
Input High Voltage(V)	V <sub>IH</sub>	0.7	-	V <sub>DD</sub>
Input Low Voltage(V)	V <sub>IL</sub>	V <sub>SS</sub>	-	0.6
Operating Current(mA)	I <sub>DD</sub>	-	1.2	1.5

**Backlight Characteristics**

Item	Symbol	Min	Typ	Max	Unit
Forward Voltage	V <sub>f</sub> (edge)	3.4	3.5	3.6	V
Forward Current	I <sub>f</sub> (edge)	28	32	38	mA
Forward Voltage	V <sub>f</sub> (array)	-	4.2	4.4	V
Forward Current	I <sub>f</sub> (array)	-	160	-	mA

**Absolute Maximum**

Item	Symbo	Min	Max
Operating Voltage(V)	V <sub>dd</sub>	-0.3	5.5
Operating Temperature(°C)	Top	-20	+70
Storage Temperature (°C)	T <sub>st</sub>	-30	+80