



Feature

- 1 .144x32 dots includes cursor
- 2. Built-in controller ST7920
- 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 _{SS}	GND
2	V _{DD}	Supply voltage for logic
3	V ₀	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	H/L Data bus line
8	DB1	H/L Data bus line
9	DB2	H/L Data bus line
10	DB3	H/L Data bus line
11	DB4	H/L Data bus line
12	DB5	H/L Data bus line
13	DB6	H/L Data bus line
14	DB7	H/L Data bus line
15	A	Backlight LED+
16	K	Backlight LED-

Mechanical Data

Item	Value	Unit
Outline	80.0 x 36.0	mm
Viewing Area	66.0 x 16.0	mm
Active Area	60.44x 13.4	mm
Dot Size	0.38 x 0.38	mm
Dot Pitch	0.42 x 0.42	mm

Electrical Characteristics

Item	Symbol	Min	Typ	Max
Operating Voltage(V)	V _{DD}	4.7	5.0	5.3
Supply Voltage For LCD	V _{DD} - V ₀	-	4.3	-
Input High Voltage(V)	V _{IH}	0.7	-	V _{DD}
Input Low Voltage(V)	V _{IL}	V _{SS}	-	0.6
Operating Current(mA)	I _{DD}	-	1.2	1.5

Backlight Characteristics

Item	Symbol	Min	Typ	Max	Unit
Forward Voltage	V _f (edge)	3.4	3.5	3.6	V
Forward Current	I _f (edge)	28	32	38	mA
Forward Voltage	V _f (array)	-	4.2	4.4	V
Forward Current	I _f (array)	-	100	-	mA

Absolute Maximum

Item	Symbo	Min	Max
Operating Voltage(V)	V _{dd}	-0.3	5.5
Operating Temperature(°C)	Top	-20	+70
Storage Temperature (°C)	Tst	-30	+80