



Feature

- 1. 16x2 characters 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 _{SS}	GND
2	V _{DD}	Supply voltage for logic
3	V ₀	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 _{ee}	Backlight LED+/Negative Voltage output
16	K	Backlight LED-

Mechanical Data

Item	Value	Unit
Outline	84.0 x 44.0	mm
Viewing Area	66.0 x 16.0	mm
Active Area	56.2 x 11.5	mm
Dot Size	0.55 x 0.65	mm
Dot Pitch	0.6 x 0.7	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	-	4.4	-
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)	T _{st}	-30	+80