



Feature

- 1. 20x4 characters includes cursor
- 2. Built-in controller (KS 0066 or Equivalent)
- 3. +5V power supply(Also available for +3V)
- 3 4. 1/16 duty cycle
- 5. LED can be driven by pin1, pin2, or A and K
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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	Backlight LED+
16	K	Backlight LED-

Mechanical Data

Item	Value	Unit
Outline	98.0 x 60.0	mm
Viewing Area	77.0 x 25.2	mm
Active Area	70.4 x 20.8	mm
Dot Size	0.55 x 0.55	mm
Dot Pitch	0.60 x 0.60	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	—	4.5	—
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)	36	48	60	mA
Forward Voltage	V _f (array)	-	4.2	4.4	V
Forward Current	I _f (array)	-	280	-	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