



Feature

- 1. 160x160 dots includes cursor
- 2. No controller
- 3. +5V power supply(Also available for +3V)
- 4. 1/160duty cycle

Terminal Function

Pin No.	Symbol	Function
1	V _{SS}	GND
2	M/NC	Frame reverse signal/NC
3	FRAME	First line marker
4	LP	Data latch
5	CP	Data shift
6	DB3	H/L Data bus line
7	DB2	H/L Data bus line
8	DB1	H/L Data bus line
9	DB0	H/L Data bus line
10	V _{ee}	Negative Voltage output
11	V _{DD}	Supply voltage for logic
12	V ₀	Contrast Adjustment
13	/DISP	H:On L:Off
14	A	Backlight LED+
15	K	Backlight LED-

Mechanical Data

Item	Value	Unit
Outline	89.2 x 85.0	mm
Viewing Area	62.0 x 62.0	mm
Active Area	60.76x 60.76	mm
Dot Size	0.34 x 0.34	mm
Dot Pitch	0.38 x 0.38	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	—	17.0	—
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}	—	1.5	3.0

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)	96	128	160	mA

Absolute Maximum

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