



Feature

- 1. 128x128 dots includes cursor
- 2. Built-in controller(RA6963 or equivalent)
- 3. +5V power supply(Also available for +3V)
- 4. 1/128duty cycle
- 5. LED can be driven by pin2,pin3,or A and K

Mechanical Data

Item	Value	Unit
Outline	85.0 x100.0	mm
Viewing Area	62.0x44.0	mm
Active Area	56.3x38.38	mm
Dot Size	0.42x 0.58	mm
Dot Pitch	0.44x 0.60	mm

Terminal Function

Pin No.	Symbol	Function
1	FG	Frame ground
2	VSS	GND
3	V _{DD}	Supply voltage for logic
4	V ₀	Contrast Adjustment
5	/WR	Data write s
6	/RD	Data read
7	/CE	H-L Enable signal
8	C/D	Command/data read/write
9	NC	No connection
10	/RST	Reset signal
11-18	DB0-DB7	H/L Data bus line
19	FS	FS="H",6*8character font FS="L",8*8character font
20	Vee	Negative Voltage output
21	A	Backlight LED+
22	K	Backlight LED-

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	—
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	4.0

Backlight Characteristics

Item	Symbol	Min	Typ	Max	Unit
Forward Voltage	Vf(edge)	3.4	3.5	3.6	V
Forward Current	If(edge)	64	80	100	mA

Absolute Maximum

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