



Feature

1. 240x128 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	170.0 x 93.4	mm
Viewing Area	128.0 x 75.0	mm
Active Area	119.97 x 63.97	mm
Dot Size	0.47 x 0.47	mm
Dot Pitch	0.5 x 0.5	mm

Terminal Function

Pin No.	Symbol	Function
1	FG	Frame ground
2	V _{SS}	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	V _{ee}	Negative Voltage output
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	RV	Reverse

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	—	18.0	—
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}	—	23	35

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)	Top	-20	+70
Storage Temperature (°C)	T _{st}	-30	+80