



Feature

1. Built in controller (ST7920)
2. +5V power supply
3. 1/32 duty cycle
4. LED can be driven by pin 15, 16.

Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	Power supply for logic
3	Vo	Vo/N.C
4	RS	Register select signal
5	R/W	H/L Read/Write signal
6	E	H→L 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	Power supply for B/L
16	K	Power supply for B/L

Mechanical Data

Item	Standard Value	Unit
Module Dimension	116.0 x 37.0 x 13.4	mm
Viewing Area	84 x 18.6	mm
Dot Sizw	0.38 x 0.46	mm
Dot Pitch	0.42 x 0.5	mm
Mounting Hole	108 x 29	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	4.75	5	5.25	V
Input Voltage	VI	0	--	VDD	V

Note: VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	L level	0.7V _{DD}	--	V _{DD}	V
	VIO	H level	0	--	0.3V _{DD}	V
Supply Current	IDD	VDD=+5V	--	2	--	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C	--	--	5.2	V
		0°C	--	--	4.8	
		25°C	--	4.5	--	
		50°C	4.7	--	--	
		70°C	3.8	--	--	
LED Forward Voltage	V _F	25°C	--	--	--	V
LED Foward Current	I _F	25°C	--	--	--	mA
CCFL	V _F	25°C	--	--	--	V _{ms}
	I _F	25°C	--	--	--	mA