



Feature

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

Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	Power supply (+5V)
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	80 x 36.0	mm
Viewing Area	66.0 x 16.0	mm
Mounting Hole	75 x 31	mm
Dot Size	0.38 x 0.38	mm
Dot Pitch	0.42 x 0.42	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	0	---	7.0	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	VDD=+5V	4.5	5.0	5.5	V	
Supply Current	IDD	VDD=+5V	---	1.2	1.5	mA	
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C	---	---	6.0	V	
		0°C	---	---	5.0		
		25°C	---	4.7	---		
		50°C	4.4	---	---		
		70°C	4.0	---	---		
LED Forward Voltage	V _F	25°C	---	4.0	4.3	V	
LED Forward Current	I _F	25°C	Array	---	130	260	mA
			Edge	---	20	40	