



### PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V <sub>SS</sub>	0V	GND
2	V <sub>DD</sub>	+5V	Power supply for logic
3	V <sub>O</sub>	-	Operating voltage for LCD
4	A0	H/L	“H” Data, “L” Instruction code
5	R/W	H/L	“H” Read, “L” Write
6	E	H/L	Enable signal
7	DB0	H/L	Data bus line
14	DB7		
15	LEDA	+5V	Power supply for LED backlight
16	LEDK	0V	

### NOTES:

1. Built-in ST7920 controller
2. Yellow green/blue mode optional

### MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	80.0X36.0X13.2	mm
Viewing Area (W x H)	66.0X16.0	mm
Dot Pitch (W x H)	0.42X0.42	mm
Dot Size (W x H)	0.38X0.38	mm

### ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V <sub>DD</sub> -V <sub>SS</sub>	-0.3	7.0	V
Supply Voltage (LCD)	V <sub>DD</sub> -V <sub>O</sub>	-0.3	13.5	V
Input Voltage	V <sub>I</sub>	-0.3	V <sub>DD</sub> +0.3	V
Operating Temp.	T <sub>OPR</sub>	-20	70	°C
Storage Temp.	T <sub>STG</sub>	-30	80	°C

### ELECTRICAL CHARACTERISTICS (V<sub>DD</sub>=5.0V, T<sub>a</sub>=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V <sub>IH</sub>	2.0	-	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	-0.3	-	0.6	V
Output High Voltage	V <sub>OH</sub>	2.4	-	V <sub>DD</sub>	V
Output Low Voltage	V <sub>OL</sub>	0	-	0.4	V
Supply Current	I <sub>DD</sub>	-	1.4	1.8	mA
LCD Driving Voltage	V <sub>O</sub> -V <sub>SS</sub>	-	4.7	-	V

### LED BACKLIGHT SPECIFICATIONS (T<sub>a</sub>=25°C)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	100mA
White	3.1V	30mA