



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	V _{DD}	+5V	Power supply for logic
3	V _O	-	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:

- Built-in ST7920 controller
- 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 _{DD} -V _{SS}	-0.3	7.0	V
Supply Voltage (LCD)	V _{DD} -V _O	-0.3	13.5	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	°C
Storage Temp.	T _{STG}	-30	80	°C

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, T_a=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	2.0	-	V _{DD}	V
Input Low Voltage	V _{IL}	-0.3	-	0.6	V
Output High Voltage	V _{OH}	2.4	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.4	V
Supply Current	I _{DD}	-	1.4	1.8	mA
LCD Driving Voltage	V _O -V _{SS}	-	4.7	-	V

LED BACKLIGHT SPECIFICATIONS (T_a=25°C)

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