



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	SDA	H/L	Serial data
3	/RES	L	Reset signal
4	SCK	H/L	Serial clock
5	/CS	L	Chip enable
6	V _{DD}	+5V	Power supply for logic

NOTES:

1. Built-in controller (ST7070or Equivalent)
2. LED BACKLIGHT pin pull height
3. 5V power supply optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	80.0X36.0X13.0	mm
Viewing Area (W x H)	64.5X13.8	mm
Character Size (W x H)	2.95X4.35	mm
Dot Size (W x H)	0.55X0.50	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	7.0	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, Ta=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	2.2	-	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}	-	0.2	-	mA
LCD Driving Voltage	V _O -V _{SS}	-	4.7	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25°C)

Item	Forward Voltage	Forward Current
WHITE	3.1V	30mA