



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	V _{DD}	3.3V	Logic power supply
3	NC	-	No connection
4	/WR	L	Write signal
5	/RD	L	Read signal
6	/CS	L	Chip enable signal
7	A0	H/L	"L" Data "H" Instruction code
8	/REST	L	Reset signal ,active "L"
9 16	DB0 DB7	H/L	Data bus line
17	NC	-	No connection
18	NC	-	No connection
19	A	5.0V	Power supply for LED backlight
20	K	0V	

NOTES:

- Built-in controller
- FSTN

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	81.44X81.44X8.0	mm
Viewing Area (W x H)	60.0 X60.0	mm
Dot Pitch (W x H)	0.34X0.34	mm
Dot Size (W x H)	0.32X0.32	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	4.0	V
Supply Voltage (LCD)	V ₀	-0.3	19.8	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	75	°C
Storage Temp.	T _{STG}	-30	80	°C

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

Item	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.5V _{DD}	3.3	V _{DD}	V
Input Low Voltage	V _{IL}	0	-	0.2V _{DD}	V
Output High Voltage	V _{OH}	2.4	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.4	V
Supply Current	I _{DD}	-	-	-	mA
LCD Driving Voltage	V ₀	-	16.5	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25°C)

Item	Forward Voltage	Forward Current
White	3.1V	45mA