



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	/RD	L	Read signal
5	/WR	L	Write signal
6	A0	H/L	"L" Data "H" Instruction code
7 14	DB0 DB7	H/L	Data bus line
15	/CS	H/L	Chip select, Active L
16	/RES	L	Reset signal, active "L"
17	VEE	-	Negative Voltage output
18	FGND	-	Frame ground
19	NC	-	No connection
20	NC	-	No connection

NOTES:

1. Built-in controller (RA8835)
2. 5V/3.3V power supply optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	148.0X120.0X15.6	mm
Viewing Area (W x H)	120.14 X92.14	mm
Dot Pitch (W x H)	0.36X0.36	mm
Dot Size (W x H)	0.33X0.33	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	0	6.5	V
Supply Voltage (LCD)	V _{DD} -V _O	0	28	V
Input Voltage	V _I	0	V _{DD}	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}	0.5V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	0	-	0.2V _{DD}	V
Supply Current	I _{DD}	-	100	-	mA
LCD Driving Voltage	V _{DD} -V _O	-	23	-	V

LED BACKLIGHT SPECIFICATION (T_a=25°C)

Item	Forward Voltage	Forward Current
WHITE	3.1V	180mA

CCFL BACKLIGHT SPECIFICATION (T_a=25°C)

Item	Symbol	Standard Value
Driving Current	IFLD	5.0mA (AC=300V)