



### PIN CONNECTIONS

Pin	Symbol	Level	Function		
1	VSS	0V	GND		
2	A0	H/L	H: data L: Command		
3	/WR	H/L	Write signal		
4	/RD	H/L	Read signal		
5	/CS	L	Chip select, active "L"		
6	/REST	L	Reset signal, active "L"		
7	VDD	+3.3V	Power Supply for logic		
8	DB0	H/L	Data bus line		
~	~				
15	DB7				
16	K			0V	Power supply for LED-
17	NC			-	No connection
18	A			+3.3V	Power supply for LED+

### NOTES:

1. Built-in controller(UC1698)
2. FSTN ,COG

### MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	82.8X76.0X9.6	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 <sub>DD</sub> -V <sub>SS</sub>	0	4.0	V
Supply Voltage(LCD)	V <sub>DD</sub> -V <sub>O</sub>	0	19.8	V
Input Voltage	V <sub>I</sub>	0	V <sub>DD</sub>	V
Operating Temp	T <sub>OPR</sub>	-40	70	°C
Storage Temp	T <sub>STG</sub>	-40	70	°C

### ELECTRICAL CHARACTERISTICS (V<sub>DD</sub>=3.3V, Ta=25°C)

Item	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V <sub>IH</sub>	0.5V <sub>DD</sub>	3.3	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	0	-	0.2V <sub>DD</sub>	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>	-	TBD	-	mA

### LED BACKLIGHT SPECIFICATION (Ta=25°C)

Item	Forward Voltage	Forward Current
WHITE	3.1V	If= 60 mA