



Unspecified tolerance is : ±0.3

### PIN CONNECTIONS(CON1)

Pin	Symbol	Level	Function
1	VB1-	-	LCD Bias voltages
2	VB1+		
3	VB0-		
4	VB0+		
5	VLCD	-	Main LCD power supply
6	VBIAS	-	Reference voltage
7	VSS	0V	GND
8	VDD	+3.3V	Power supply for logic
9-16	D7-D0	H/L	Parallel :data bus
17	WR1	H/L	Parallel : read/write operation control
18	WR0	H/L	
19	CD	H/L	L: control data H: display data
20	/RST	H/L	Reset signal,active"L"
21	CS	H/L	Chip select
22	BM0	H/L	Bus mode select
23	BM1	H/L	

### MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size ( W x H x T )	98.7X67.7X9.5	mm
Viewing Area ( W x H )	92.0 X53.0	mm
Dot Pitch ( W x H )	0.35X0.35	mm
Dot Size ( W x H )	0.325X0.325	mm

### ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V <sub>DD</sub> -V <sub>SS</sub>	0	4.0	V
Operating Temp	T <sub>OPR.</sub>	-20	70	°C
Storage Temp	T <sub>STG.</sub>	-30	80	°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>	0.8V <sub>DD</sub>	--	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>	0.8V <sub>DD</sub>	--	V <sub>DD</sub>	V
Output Low Voltage	V <sub>OL</sub>	0	--	0.2V <sub>DD</sub>	V
Supply Current	I <sub>DD</sub>	-	TBD	-	mA

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

Item	Forward Voltage	Forward Current
White	3.3V	If=75 mA

NOTES:1. Built-in controller(UC1608)

2. Support industry standard 3-wire,4-wire serial bus(S9,S8,S8uc) and 8-bit/4-bit parallel bus (8080 or 6800 )

3. FSTN, COG