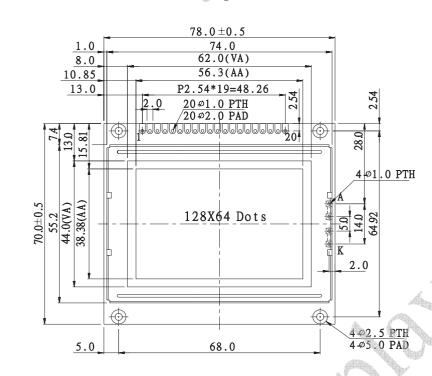
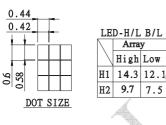
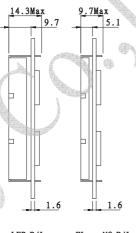
# **WG12864D** Graphic 128x64dots

## Dimension drawing





Array



LED B/L EL or NO B/L

# Feature

- 1. Built-in controller TOSHIBA- (T6963C)
- 2. +5V power supply
- 3. 1/64 duty cycle
- 4. N.V Built-in

Pin NO.	Symbol	Function
1	FG/Vee	Frame Ground/ N/V
2	Vss	Power Supply(0V)
3	Vdd	Power supply (+5V)
4	Vo	Power supply for LCD driver
5	WR	Data write
6	RD	Data read
7	CE	Chip enable
8	CD	Command/data read/write
9	RST	Controller reset
10	DB0	Data bus line
11	DB1	Data bus line
12	DB2	Data bus line
13	DB3	Data bus line
14	DB4	Data bus line
15	DB5	Data bus line
16	DB6	Data bus line
17	DB7	Data bus line
18	FS	Font select
19	K	Power supply for LED B/L (0V)
20	Α	Power supply for LED B/L (+4.2V)RA=0 $\Omega$

## Mechanical Data

Item	Standard Value	Unit
Module Dimension	78.0x70.0x14.3	mm
Viewing Area	62.0x44.0	mm
Mounting hole	68.0x 64.92	mm
Dot Pitch	0.44x0.6	mm

#### Absolute Maximum Rating

Itam	Cymph ol	Stan	11			
Item	Symbol	min.	typ.	max.	Unit	
Power Supply	VDD-VSS	4.5	5.0	5.5	V	
Input Voltage	VI	-0.3		VDD	V	

Note: VSS=0 Volt, VDD=5.0 Volt.

### Electronical Characteristics

Wie Circuit and Control of Control									
14	0 1 1	Condition		Standard Value					
Item	Symbol			min.	typ.	max.	Unit		
Input Voltage	VDD	L	level	0.7V <sub>DD</sub>		V <sub>DD</sub>	٧		
Input voltage	VIO	H level		0		0.3V <sub>DD</sub>	٧		
Supply Current	IDD		D=5V		11.2	11.8	mΑ		
		-2	20°C	9.6	10.1	10.6	V		
Recommended LC Driving			0°C	9.4	9.9	10.4			
Voltage for Normal Temp.	VDD-V0	2	25°C	9.4	9.6	10.4			
Version module			50°C	8.7	9.2	9.7			
version module		70°C		8.5	9.0	9.5			
LED Forward Voltage	VF	25°C			4.2		٧		
1505 10 1	15	25°C	Array Hight		480	960	mΑ		
LED Forward Current	IF	230	Low		350	700	mΑ		
EL Power Supply Current	IEL	Ve <b>l</b> =110	VAC;400Hz			5.0	mA		

