

# BeyondTek BTG-120622B



## 1. General Specifications

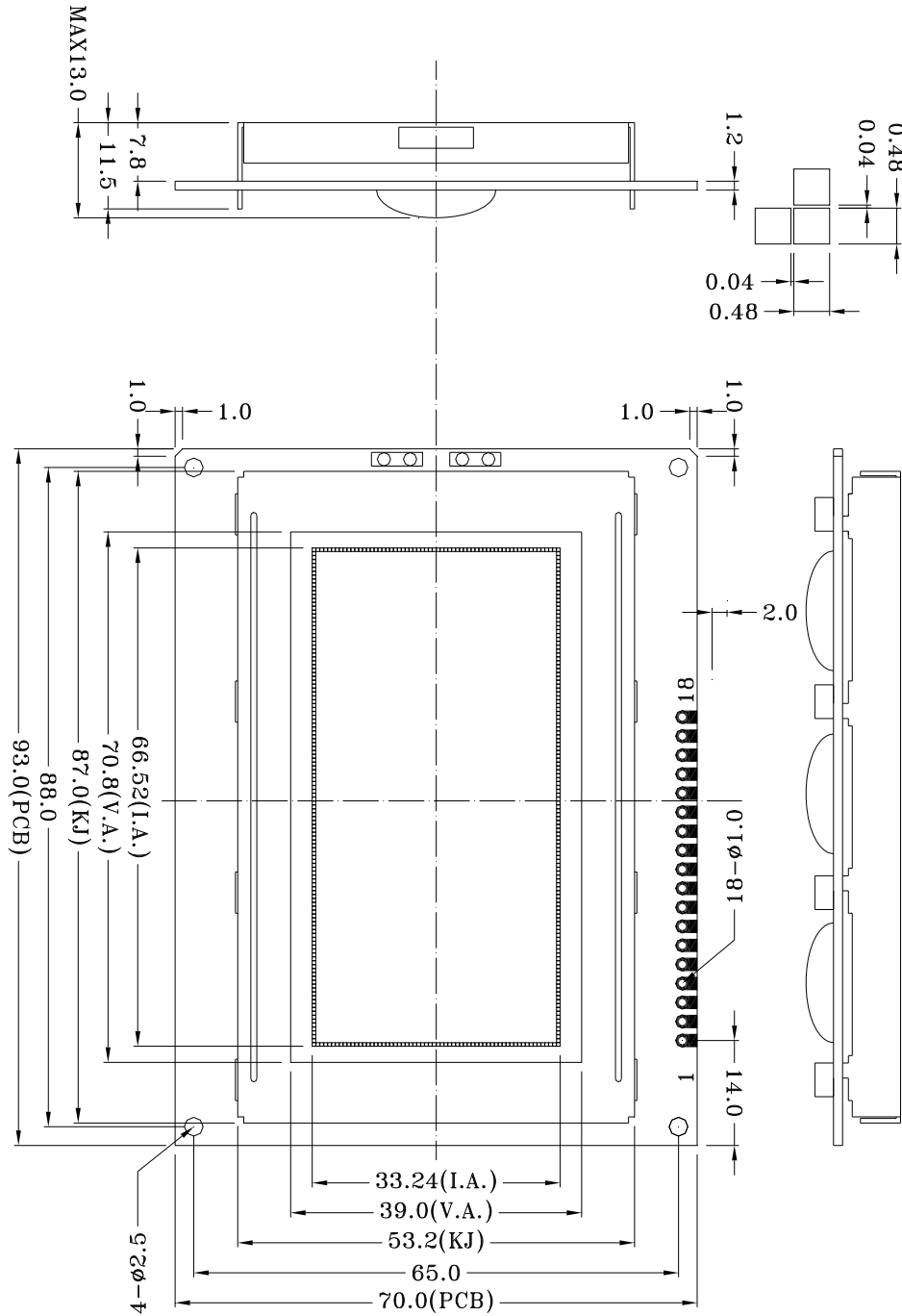
Display Fonts:	Graphic Matrix
Display Type:	STN
Display Color:	Yellow-Green
Backlight:	LED (Yellow-Green)
Display Mode:	Transflective/Positive
Viewing Direction:	6 O'clock
Driver Mode:	1/33 Duty
Module Size (WxHxT) :	93.0 x 70.0 x 13.0mm
Viewing Area (WxH) :	70.8x 39.0 mm
Number of Dots:	128x 64 dots
Dot Size (WxH):	0.48 x 0.48mm
Dot Pitch (WxH):	0.52 x 0.52mm
Operation Temperature:	-25°C ~ +70°C
Storage Temperature:	-40°C ~+ 80°C
Controller:	ST7920
Assy. Type:	COB



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## 2. Mechanical Diagram





### 3. Absolute Maximum Ratings

Unless otherwise noted, VSS = 0 V

Absolute Maximum Ratings Parameter	Symbol	Conditions	Unit
Power Supply Voltage	VDD	-0.3 to +5.5	V
Power supply voltage	VOUT, V0	-0.3 to 7.0	V
Input voltage	VIN	-0.3 to VDD + 0.3	V

### 4. Electrical Characteristics

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Supply Voltage	Logic	Vdd	4.5	5.0	5.5	V	
	LCD drive	Vdd-Vee	--	5.5	--		
Input Voltage	"H" Level	Vih	0.7Vdd	—	Vdd		
	"L" Level	Vil	-0.3	—	0.6		
Output Voltage	"H" Level	Voh	Ioh=0.5mA	0.8Vdd	Vdd		
	"L" Level	Vol	Iol=0.5mA	—	0.4		
Current Consumption	Logic	Idd	Vdd=5.0V	—	—	3.0	mA

### 5. LED Electrical Characteristics

Symbol	Conditions	Min.	Typ.	Max.	Unit
Voltage	If=150mA	4.0	4.2	4.4	V
Reverse Current	Vdd=10V	—	100	500	μA
Top		-25	—	70	□
Tst		-40	—	80	
Color	YELLOW-GREEN				





## 6. Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	This is a 0 V terminal connected to the system VSS.
2	VDD	+5.0V	Shared with the MPU power supply terminal VCC
3	Vlcd	--	Driving Voltage for LCD
4	PSB	H/L	PSB="H" , 8/4-bits parallel bus mode PSB="L", serial mode
5	RS	H/L	D/I="H", it indicates that DB7~DB0 is display data; D/I="L", it indicates that DB7~DB0 is instruction data.
6	RW	H/L	R/W="H" and E="H" , data is read to DB7~DB0 R/W="L" and E="H->L" , data is written to DB7~DB0
7	E	H/L	Enable signal
8	DB0	H/L	Data bus line.
9	DB1	H/L	Data bus line.
10	DB2	H/L	Data bus line.
11	DB3	H/L	Data bus line.
12	DB4	H/L	Data bus line.
13	DB5	H/L	Data bus line.
14	DB6	H/L	Data bus line.
15	DB7	H/L	Data bus line.
16	NC	--	No Connection
17	BL+	+4.2V	Power Supply for LED (+)
18	BL-	0V	Power Supply for LED (-)

