

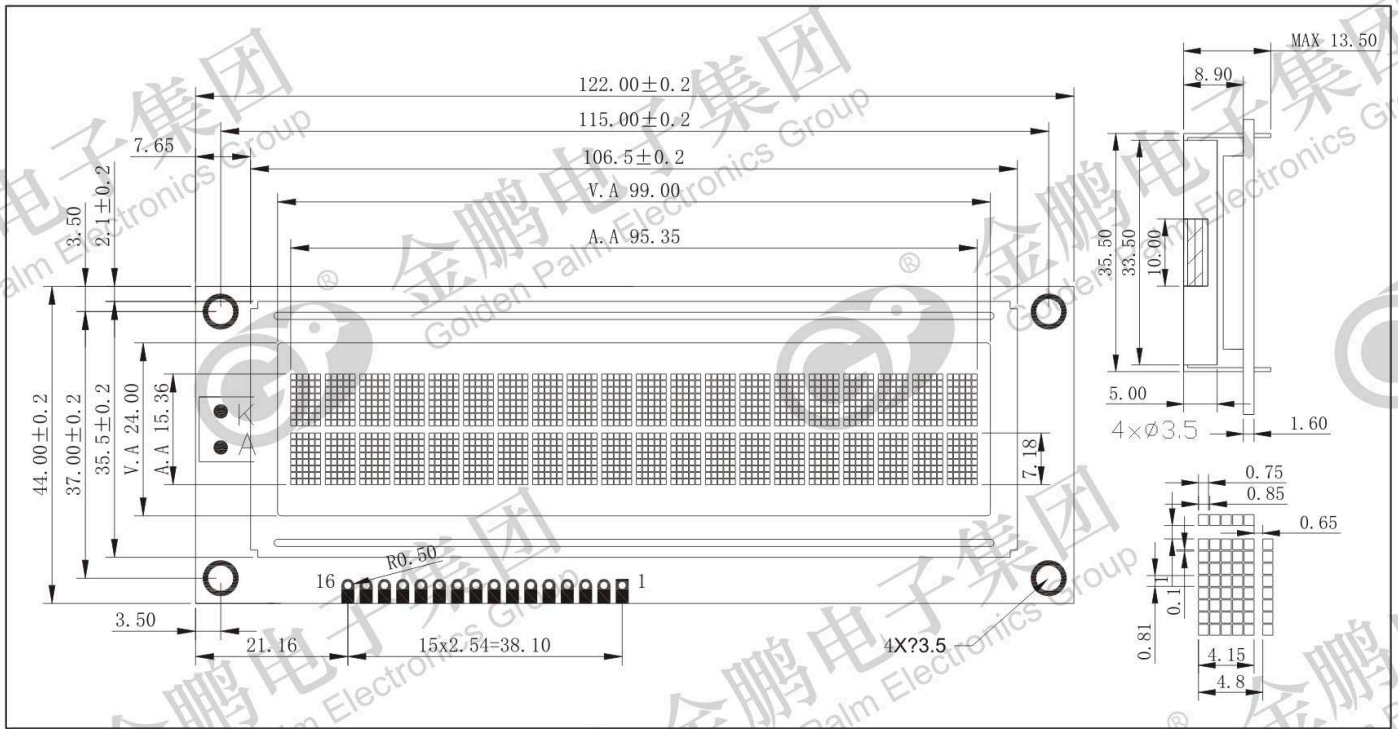


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Golden Palm Industry Co.,Ltd

Address:13-15F,Block E,Tian Ning Plaza,
Jianshe 4th Road,Zhaoqing,Guangdong
Province,China Postcode:526040
Tel:86-758-2317053 Fax:86-758-2317722
E-mail:support@gptlcm.cn syl@gptlcm.cn
http://www.gptlcm.cn



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD}	-0.3	7.0	V
Supply Voltage(LCD)	V _{DD-VO}	V _{DD} -15.0	V _{DD} +0.3	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{opr}	0	50	°C
Storage Temp.	T _{stg}	-20	70	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size(W X H X T)	122.0X44.0X13.0	mm
Viewing Area(W X H)	99.0X24.0	mm
Dot Pitch(W X H)	0.85X0.91	mm
Dot Size(W X H)	0.75X0.81	mm

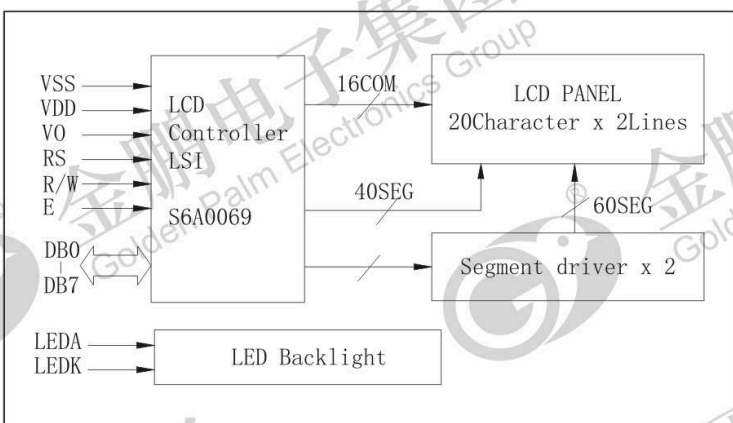
ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.25V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	--	2.2	--	V _{DD}	V
Input Low Voltage	V _{IL}	--	-0.3	--	0.6	V
Output High Voltage	V _{OH}	I _{OH} = -2.0mA	2.4	--	--	V
Output Low Voltage	V _{OL}	I _{OL} = +2.0mA	--	--	0.4	V
Supply Current	I _{DD}	V _{DD} = 5.0V	--	--	--	mA

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	VSS	--	GND (0V)
2	VDD	--	Supply Voltage for Logic (+5V)
3	VO	--	Power supply for LCD
4	RS	H/L	H: data L: Instruction Code
5	R/W	H/L	H: Read L: Write
6	E	H/H	Enable Signal
7	DB0	H/L	Data Bus Line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	LED+	--	Power supply for LED
16	LED-	--	
17	NC	--	NO Connection
18	NC	--	
19	LED+	--	Power supply for LED
20	LED-	--	

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS (Ta=25 °C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V _f	4.1	4.3	V
Forward Current	I _f	120	240	mA
Emission Wave Length	λ _p	568	--	nm