

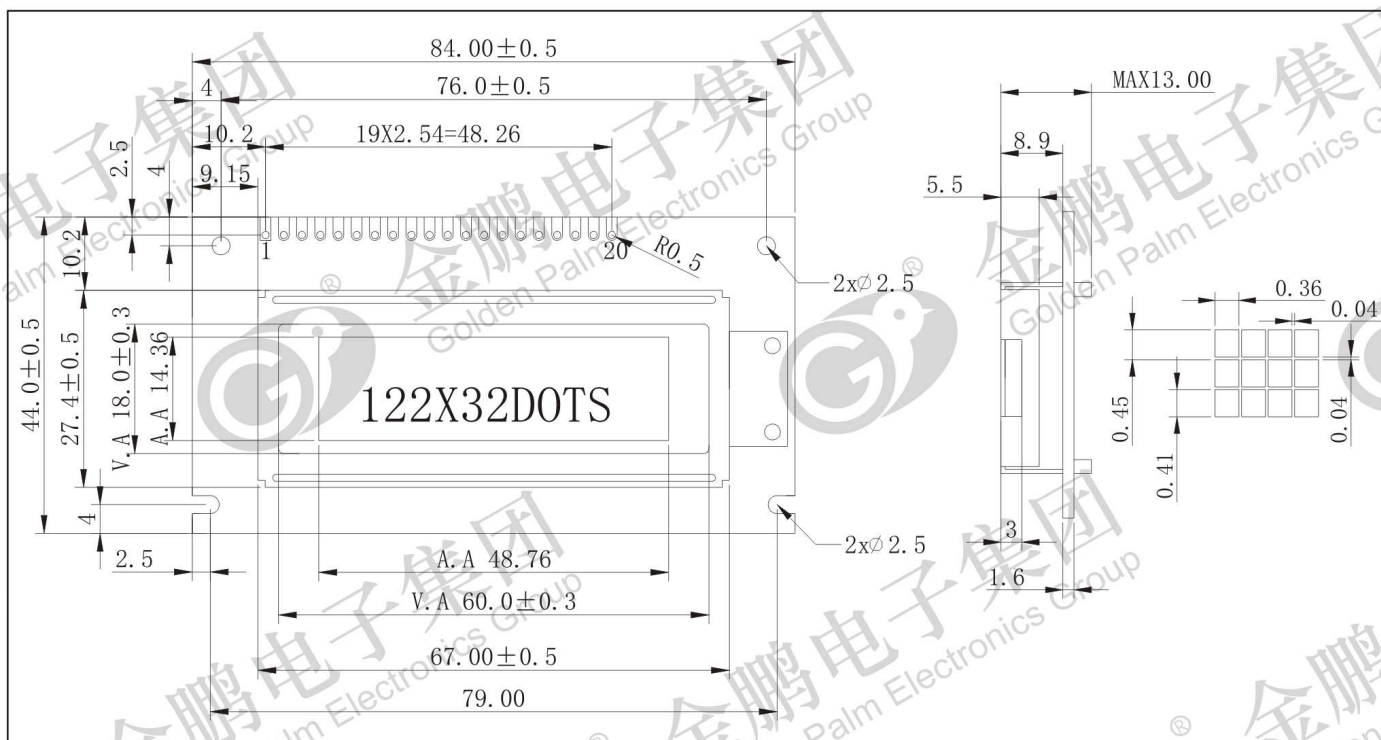


OCM12232-2

122X32 dots

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ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD}	2.4	7.0	V
Supply Voltage(LCD)	V _{DD-VO}	V _{DD} -15.0	V _{DD}	V
Input Voltage	V _I	V _{SS}	V _{DD}	V
Operating Temp.	T _{opr}	0	50	°C
Storage Temp.	T _{stg}	-20	60	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size(W X H X T)	84.0 X 44.0 X 13.0	mm
Viewing Area(W X H)	60.0 X 18.0	mm
Dot Pitch(W X H)	0.40 X 0.45	mm
Dot Size(W X H)	0.36 X 0.41	mm

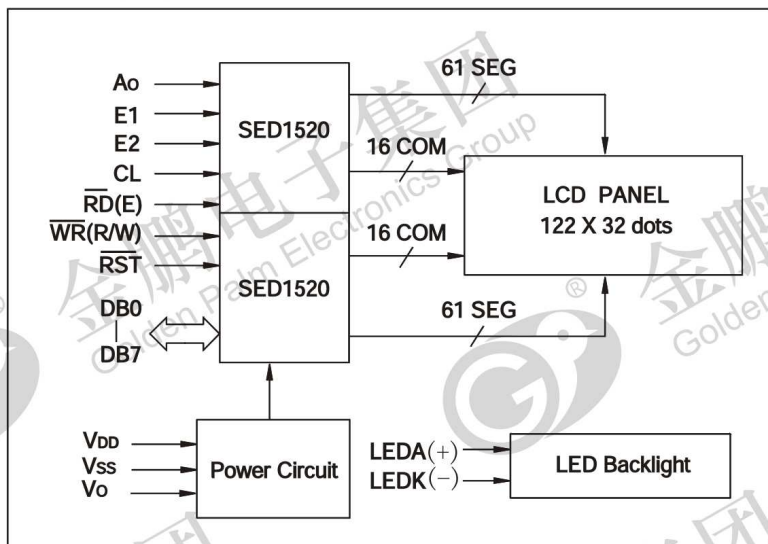
ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.25V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	--	2.4	--	V _{DD}	V
Input Low Voltage	V _{IL}	--	V _{SS}	--	V _{DD}	V
Output High Voltage	V _{OH}	I _{OH} = -2.0mA	2.4	--	V _{DD}	V
Output Low Voltage	V _{OL}	I _{OL} = +2.0mA	0	--	0.4	V
Supply Current	I _{DD}	V _{DD} = 5.0V	--	--	0.6	mA

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	--	GND (0V)
2	V _{DD}	--	Supply Voltage for Logic (+5V)
3	V _O	--	Power supply for LCD
4	A ₀	H/L	Select display data or instrction
5	E1	L	Read/Write enable signal(Chip 1)
6	E2	L	Read/Write enable signal(Chip 2)
7	CL	H/L	External clock(2K HZ)
8	/RD(E)	L(H)	/RD for 80 seri,E for 68 seri
9	/WR(R/W)	L(H)	/WR for 80 seri,E for 68 seri
10	DB0	H/L	Data Bus Line
11	DB1	H/L	
12	DB2	H/L	
13	DB3	H/L	
14	DB4	H/L	
15	DB5	H/L	
16	DB6	H/L	
17	DB7	H/L	
18	RESET	L	L:Reset Signal
19	LED+	--	Power supply for LED+or EL
20	LED-	--	Power supply for LED-or EL

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS (T_a=25 °C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V _f	4.1	4.3	V
Forward Current	I _f	150	240	mA
Emission Wave Length	λ _p	568	--	nm