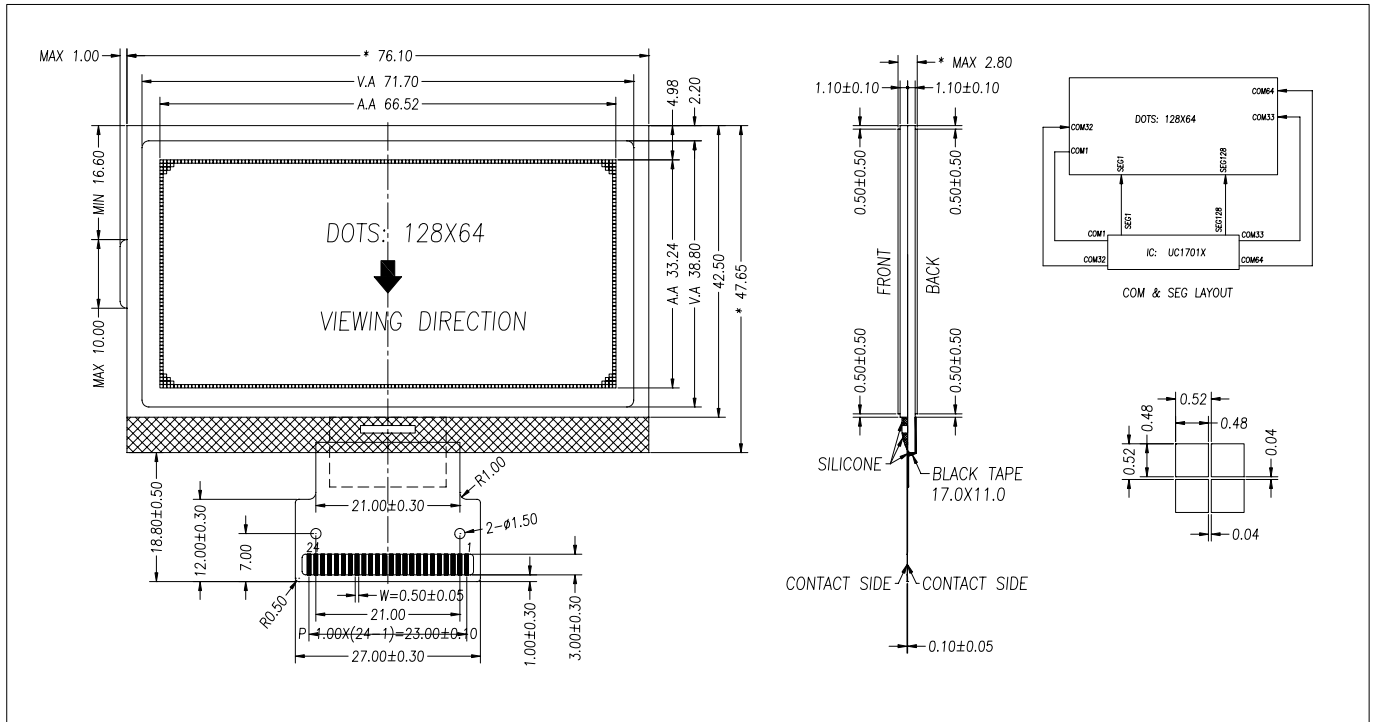


HGO128647-P-F

1/65DUTY 1/9BIAS



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	NC	-	No connection
2	CS0	L	Chip select, active "L"
3	RST	L	Reset signal ,active "L"
4	CD	H/L	H: Display data L: Control data
5	WR0	H/L	Read/write operation control
6	WR1		
7	D0	H/L	Data bus line
14	D7		
15	V _{DD}		
16	V _{SS}	0V	GND
17	V _{B0+}	-	LCD bias voltages . These are the voltage sources to provide SEG driving currents. These voltages are generated internally. Connect capacitors of CBX value between VBX+ and VBX-.
18	V _{B0-}		
19	V _{B1+}		
20	V _{B1-}		
21	V _{LCDIN}	-	Main LCD power supply
22	V _{LCDOUT}		
23	BM0	H/L	Interface select: 8-bit 6800/8080 or 4-wire SPI
24	BM1		

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	77.10X66.45X2.8	mm
Viewing Area (W x H)	71.7 X38.8	mm
Dot Pitch (W x H)	0.52X0.52	mm
Dot Size (W x H)	0.48X0.48	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	4.0	V
Supply Voltage (LCD)	V ₀	-0.3	13.2	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	°C
Storage Temp.	T _{STG}	-30	80	°C

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, Ta=25°C)

Item	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8V _{DD}	3.3	-	V
Input Low Voltage	V _{IL}	-	-	0.2V _{DD}	V
Output High Voltage	V _{OH}	0.8V _{DD}	-	-	V
Output Low Voltage	V _{OL}	-	-	0.2V _{DD}	V
Supply Current	I _{DD}	-	-	-	uA
LCD Driving Voltage	V ₀	-	10.0	-	V

NOTES: 1. Built-in UC1701x controller

2. COG、FSTN