



MULTI-INNO TECHNOLOGY CO., LTD.

LCD MODULE SPECIFICATION

Model : MI12864BO-1

Revision	0.2
Engineering	
Date	
Our Reference	

OLED

128X64

1.02"



■ PHYSICAL DATA

No.	Items:	Specification:	Unit
1	Diagonal Size	1.02	Inch
2	Resolution	128(H) x 64(V)	Lines
3	Active Area	23.02(W) x 11.86(H)	mm
4	Outline Dimension (Panel)	30.00(W) x 20.16(H)	mm
5	Pixel Pitch	0.180(W) x 0.180(H)	mm
6	Pixel Size	0.160(W) x 0.160(H)	mm
7	Driver IC	SH1101A	-
8	Grayscale	mono	-
9	Interface	Parallel / Serial	-
10	IC package type	COG	-
11	Thickness	1.5±0.1	mm
12	Weight	<2.0	g
13	Duty	1/64	-

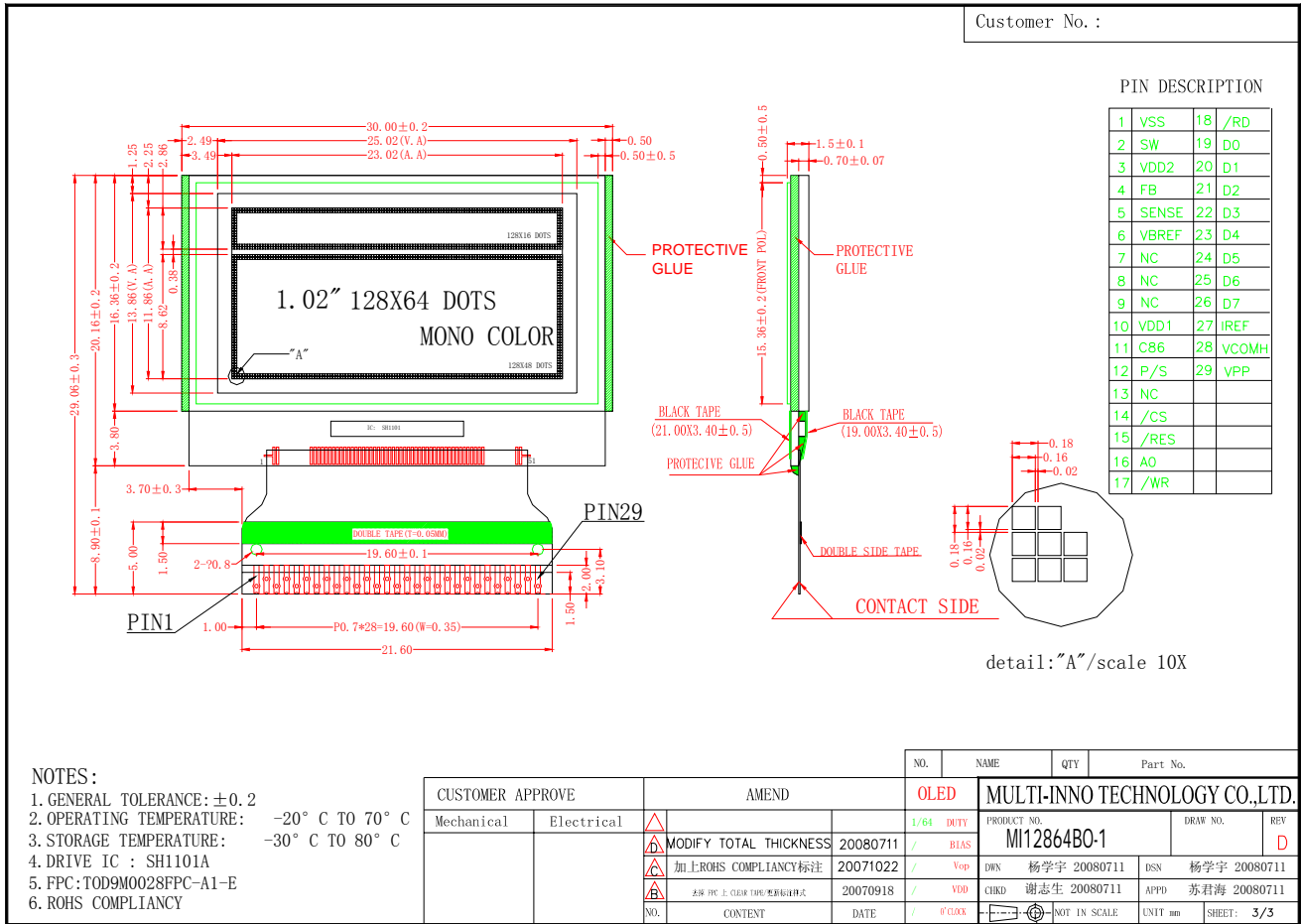
■ SERIES PRODUCTS LIST

Module No.	Display Color	CIE		Luminance typical(cd/m ²)	Lifetime (hrs, 25°C)	
		x	y		30% ON*	100% ON*
MI12864BO-1-A2	Blue+yellow	0.16 ±0.05	0.27±0.05	60	80K	24K
				80	60K	18K
MI12864BO-1-R	Red	0.65 ±0.04	0.34±0.04	30	150K	45K
				50	75K	22K
MI12864BO-1-G	Green	0.31 ±0.04	0.62±0.04	80	80K	24K
				100	55K	16K
MI12864BO-1-Y	Yellow	0.46 ±0.05	0.51±0.05	60	150K	45K
				100	70K	22K
MI12864BO-1-E	White	0.3 ±0.05	0.36±0.05	60	80K	24K
				80	60K	18K

* 30% ON:30% pixels scrolling display on;100% ON:all pixels display on

- Life Time** is defined when the Luminance has decayed to less than 50% of the initial Luminance

EXTERNAL DIMENSIONS

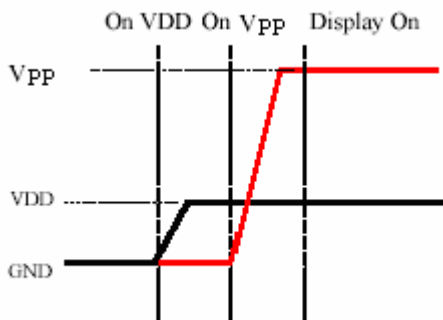


TIMING OF POWER SUPPLY

To Protect OLED panel and extend the panel life time, the driver IC power up/down routine should include a delay period between high voltage and low voltage power sources turn on/off.

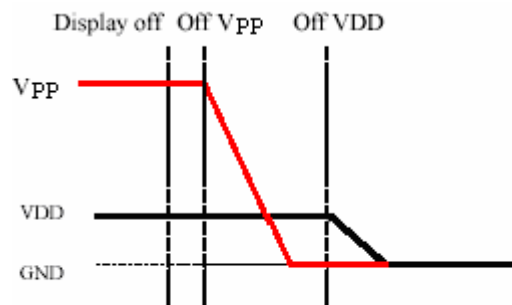
Power up Sequence:

1. Power up V_{DD}
2. Delay 100ms
3. Power up V_{PP} (High Voltage)
4. Delay 100ms
5. Send Display ON command



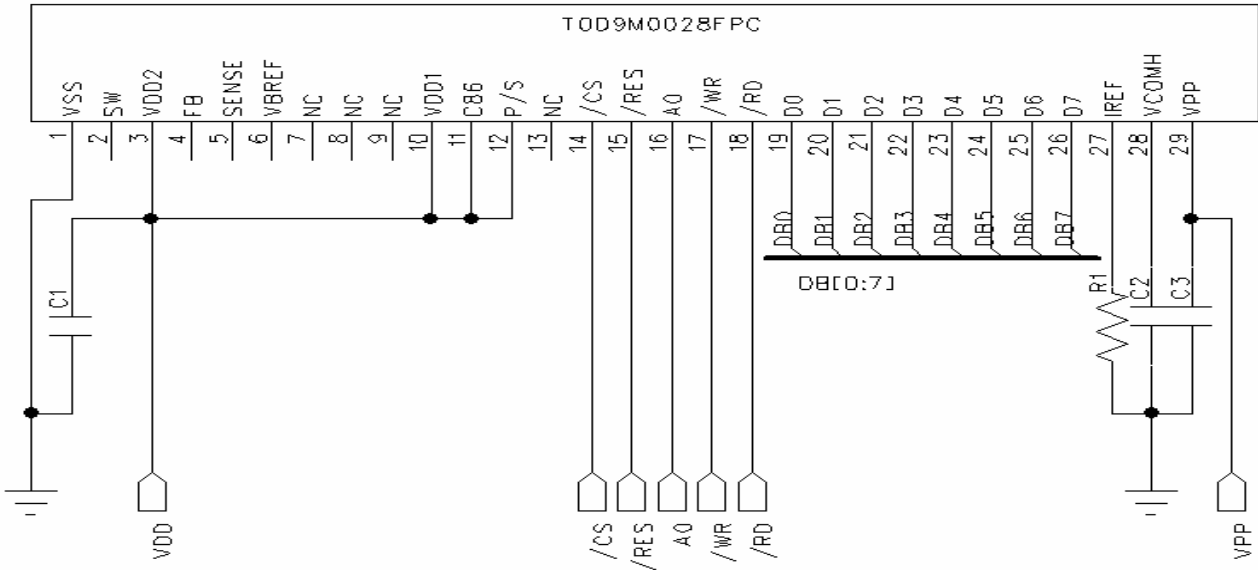
Power down Sequence:

1. Send Display OFF command
2. Power down V_{PP} (High Voltage)
3. Delay 100ms
4. Power down V_{DD}

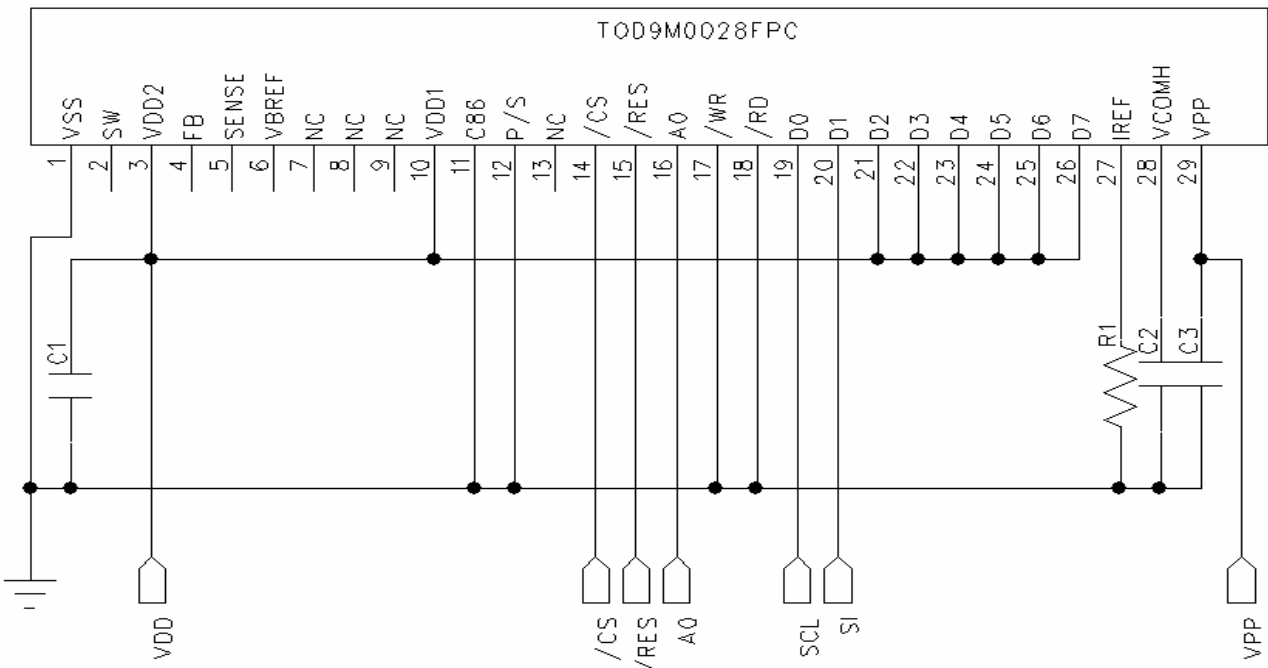


■ SCHEMATIC EXAMPLE

◆ 8080 Series Interface Application Circuit(External VPP):



◆ Serial Interface Application Circuit(External VPP):



NOTE:

1. $R1=910K\Omega, C1=C2=C3=4.7\mu F$

2. In Serial interface mode, read function is not possible.