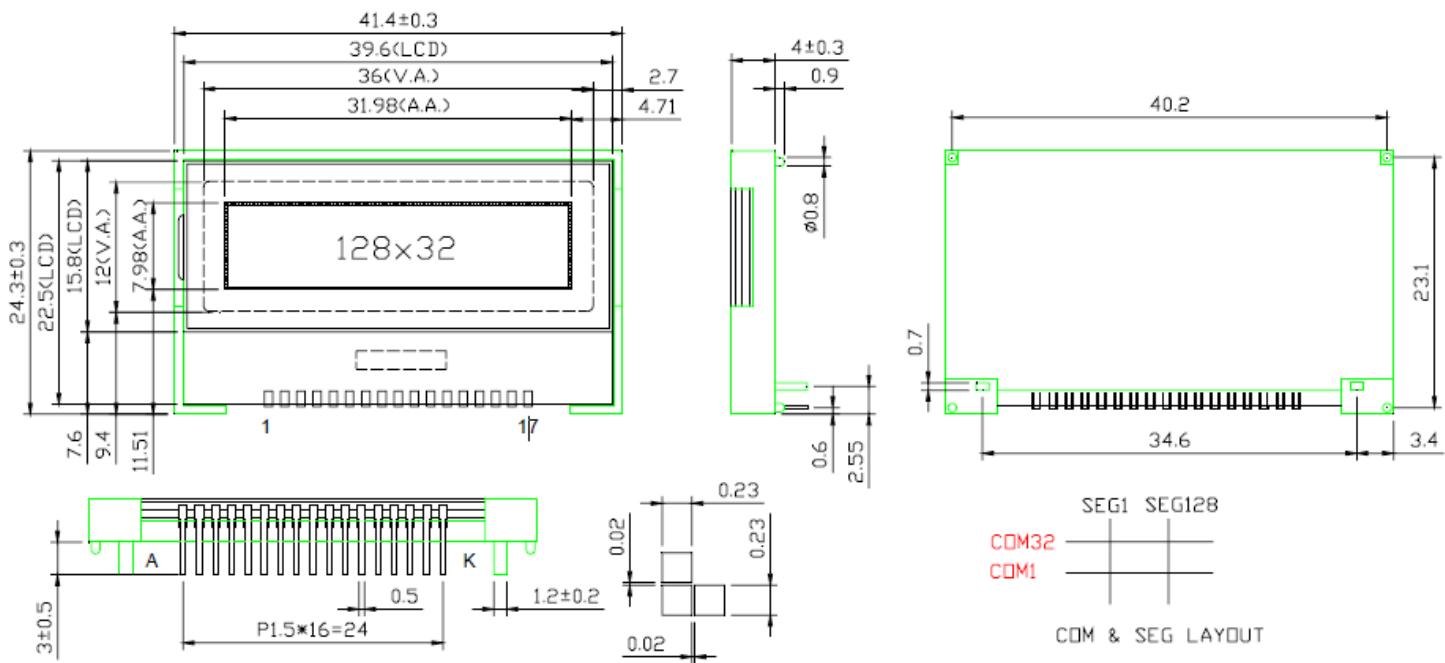




Basic Graphic LCD Drawing

Part Number: **FDS128x32(41.4x24.3)LGG**



Features:

1. 128x32 dots Graphic LCD module
2. Built-in controller (ST7565R or Equivalent)
3. 1/33 duty, 1/6 bias, 3.3V power supply
4. 4-line SPI MPU interfaces

Mechanical Data

ITEM	STANDARD	UNIT
MODULE DIMENSION	41.4 X 24.3	mm
VIEWING AREA	36.0 X 12.0	mm
DOT SIZE	0.23 X 0.23	mm



Interface Pin Connections

NO	SYM	I/O	FUNCTION
1~5	V0~V4	Power Supply	Power supply LCD
6	C2+		
7	C2-		For voltage booster circuit. External capacitor about 0.47uF~2.2uF.
8	C1+		
9	C1-		
10	VOUT		DC/DC voltage converter
11	Vss		Signal ground for LCM
12	VDD		Power supply for logic for LCM
13	SDA (SI)	MPU	Input data
14	SCL	MPU	Serial clock
15	A0	MPU	Select registers. 0:instruction; 1:data register
16	RST	MPU	External reset PIN. Must be fixed to VDD low active.
17	CS1B	MPU	Chip select in serial interface low active.
A	LED+	LED BKL power supply	
K	LED-		Power supply for BKL

Absolute Maximum Rating

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Voltage	VDD-VSS	0	--	6.0	V
Input Voltage	V _{IN}	V _{ss}	--	V _{DD}	
Operating Temperature Range	V _{OP}	-20	--	+70	°C
Storage Temperature Range	V _{ST}	-30	--	+80	

Electrical Characteristics

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage for LCD	V _{DD} -V ₀	T _a = 25°C	--	6.0	--	V
Input Voltage	V _{DD}		2.7	3.0	3.3	
Supply Current	I _{DD}	T _a = 25°C, V _{DD} =3.0V	--	0.25	0.45	mA
Input Leakage Current	I _{LKG}		--	--	1.0	uA
"H" level input voltage	V _{IH}		2.2	--	V _{DD}	
"L" level input voltage	V _{IL}	Twice initial value or less	0	--	0.6	
"H" level output voltage	V _{OH}	LOH= -0.25mA	2.4	--	--	
"L" level output voltage	V _{OL}	LOH= 1.6mA	--	--	0.4	
Backlight supply voltage	V _F		--	3.0	--	
Backlight supply current	I _{LED}	V _F -3.0V				

