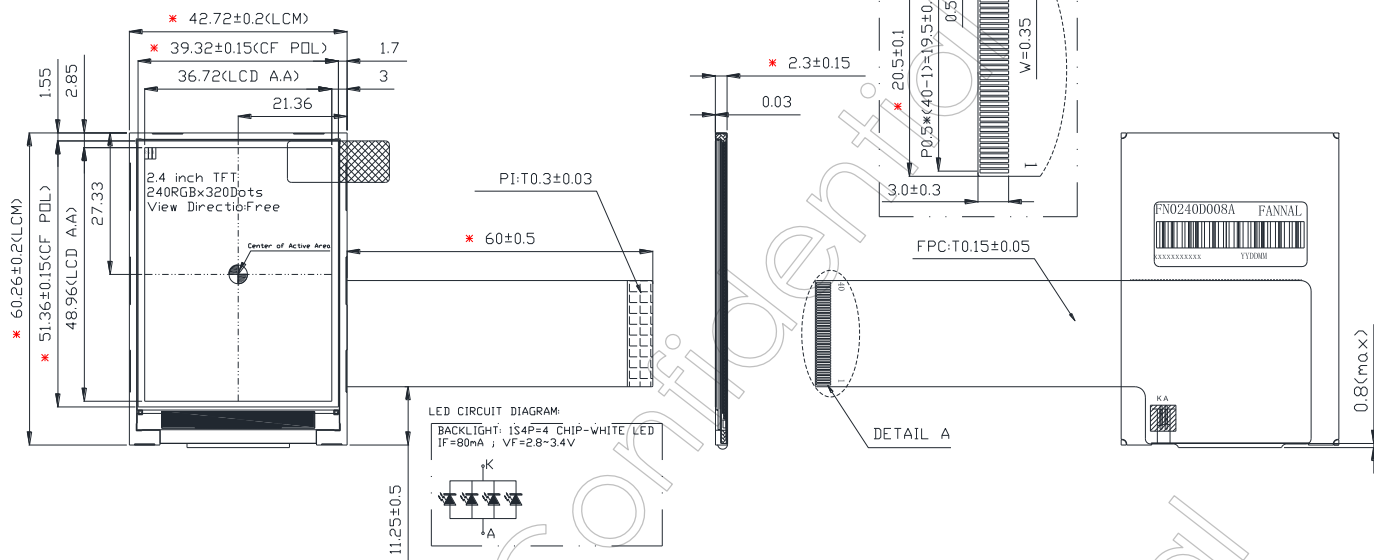


DETAIL A(2:1)



Parameter	Specification	Unit	Pin No.	Symbol	I/O	Description
LCD size	2.4 (Diagonal)	inch	1	LEDA	P	LED power anode
Number Of Pixels	240(H)×320(V)	pixels	2-5	LEDK1-4	P	LED power cathode
Pixel Pitch	0.153(H)×0.153(V)	mm	6	SDI	I	SPI interface Input pin.
Active Area	36.72(H)×48.96(V)	mm	7	VS	I	Frame synchronizing signal
Module Size	42.72(W)×60.26(H)×2.3(D)	mm	8	HS	I	Line synchronizing signal
Display Mode	Normally Black , Transmissive		9-10	IM2/IM1	-	Select the interface mode (NC)
Interface	MCU&4-line SPI		11	DE	I	Data enable signal for RGB interface operation.
Color Depth	65K	Colors	12	GND	P	Ground.
Surface treatment	Anti-Glare		13	RESET	I	Reset signal input.
View Direction	ALL	O'clock	14-15	DB9/0	I	No connection
Power Supply	2.8	V	16-21	DB17/12(R5-R0)	I	MCU system and RGB interface mode.
Power Consumption	0.5(Typ.)	W	22-26	DB11/6(G5-G0)	I	MCU system and RGB interface mode.
Weight	12.0(Typ.)	g	27-31	DB5/1(B5-1)	I	MCU system and RGB interface mode.
Luminance	550(Typ.)	cd/m <sup>2</sup>	32	RD	I	Serves as a read signal and MCU read data at the rising edge.
Driver IC	ST7789V2		33	RS/SCL	I	(D/CX): This pin is used to select "Data or command" (SCL): This pin is used as the serial interface clock.
Operating Temperature	-20~+70	°C	34	WR	I	Serves as a write signal and MCU writes data at the rising edge.
Storage Temperature	-30~+80	°C	35	CS	I	Chip select input pin.
			36	DCLK	I	Pixel clock input signal.
			37	GND	P	Ground.
			38	VDD	P	Supply analog voltage.
			39	IOVCC	P	Logic power for digital circuit.
			40	NC	-	No connection
Parameter	Symbol	Min.	Typ.	Max.	Unit	
Supply voltage for logic	VDD	2.5	2.8	3.3	V	
Input current	IDD		8.8		mA	
Input voltage "H" level	VIH	0.7VDD	-	VDD	V	
Input voltage "L" level	VIL	VSS	-	0.3VDD	V	
Output voltage "H" level	VOH	0.8VDD	-	VDD	mA	
Output voltage "L" level	VOL	VSS	-	0.2VDD	V	
Parameter	Symbol	Min.	Typ.	Max.	Unit	
Forward Current Voltage	VF	2.9	3.2	3.4	V	
Forward Current	If	-	80	100	mA	
Backlight Power Consumption	Wbl	-	0.256	0.34	W	
LED Lifetime		-	30000	-	Hrs	