

Product Specification	Model:	AWT-480272T43N09	Rev. No.	Issued Date.	Page.
			B	2011/11/30	5 / 20

2.0 ABSOLUTE MAXIMUM RATINGS

2.1 Electrical Absolute Rating

2.1.1 TFT LCD Module

Item	Symbol	Min.	Max.	Unit.	Note
Power supply voltage	VDD	-0.3	6.0	V	GND=0
	VGH	0.3	40	V	GND=0
	VGL	-20	0.3	V	GND=0
	AVDD	0.5	15	V	AGND=0
	VCOM	0	6	V	
Logic Signal Input Level	V1	-0.3	VDD+0.3	V	

2.1.2 Back-Light Unit

Item	Symbol	MIN.	TYP.	MAX.	Unit	Note
Forward voltage	Vf	17.8	18.2	18.6	V (1)(2)	
Forward current	If	30	40	50	mA	(1)(2) (3)
Power Consumption	PBL	--	0.8	--	W	

Note:

(1) Permanent damage may occur to the LCD module if beyond this specification. Functional operation should be restricted to the conditions described under normal operating conditions.

(2) Ta = 25 ± 2°C

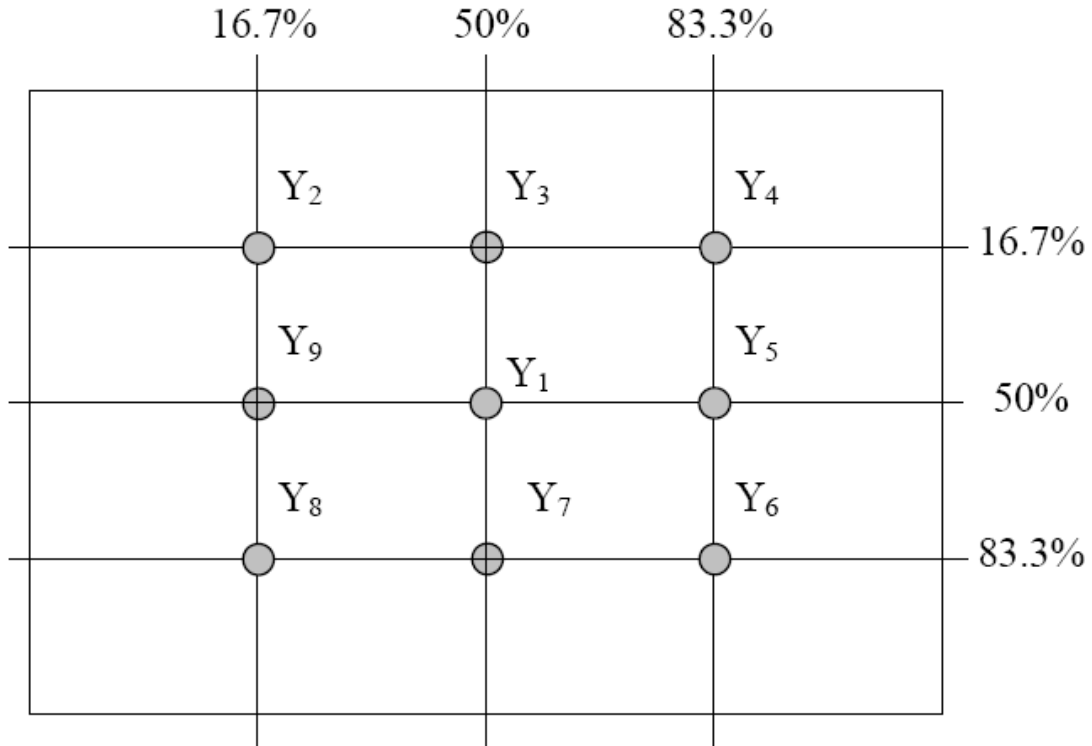
(3) Test Condition: LED current 40 mA

2.2 Environment Absolute Rating

Item	Symbol	Min.	Max.	Unit	Remarks
Operating Temperature	Topa	-20	+70	°C	
Storage Temperature	Tstg	-30	+80	°C	

Product Specification	Model:	AWT-480272T43N09	Rev. No.	Issued Date.	Page.
			B	2011/11/30	9/20

Note (5) Definition of brightness uniformity



$$\text{Luminance uniformity} = \frac{(\text{Min Luminance of 9 points})}{(\text{Max Luminance of 9 points})} \times 100\%$$

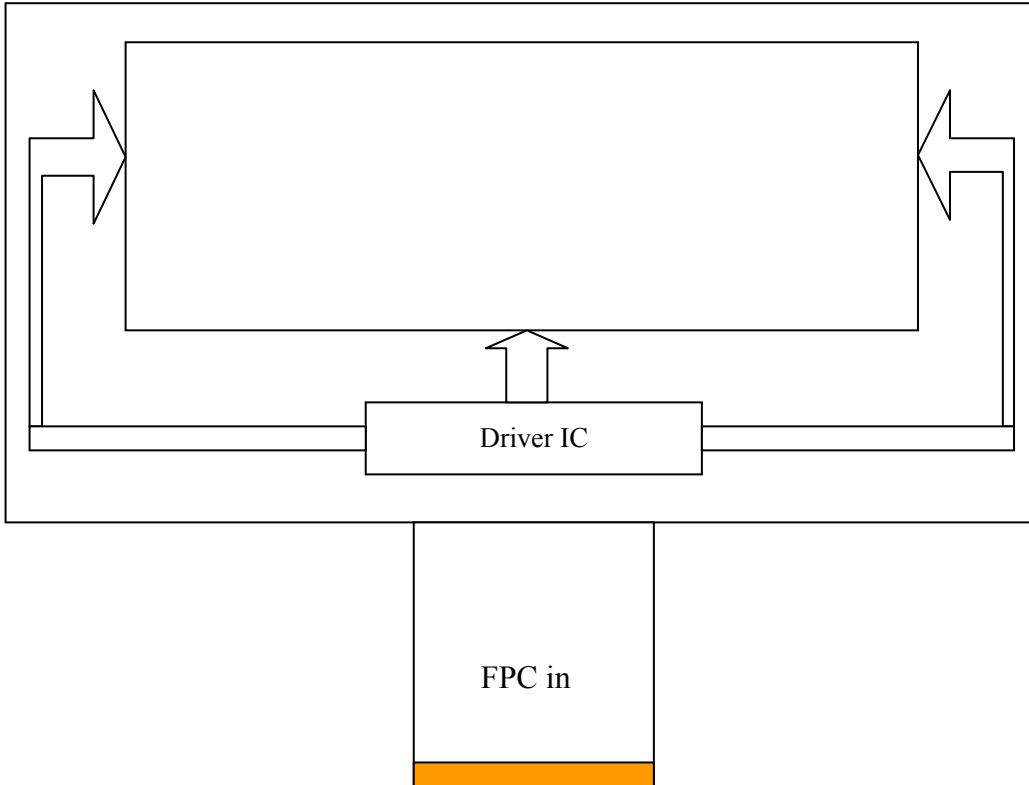
Note (6) Rubbing Direction (The different Rubbing Direction will cause the different optimal view direction).

Note (7) Measured at the brightness of the panel when all terminals of LCD panel are electrically open.

Product Specification	Model:	AWT-480272T43N09	Rev. No.	Issued Date.	Page.
			B	2011/11/30	10 / 20

4.0 BLOCK DIAGRAM

4.1 TFT LCD Module



4.2 Pixel Format

