SPECIFICATIONS OF LIQUID CRYSTAL DISPLAY

TDAD106NCRN0 MODEL NO :

CONTENTS:

NO.	ITEM	PAGE
1	Features	2
2	Electro-Optical Characteristics	2-5
3	Drawing	6-8

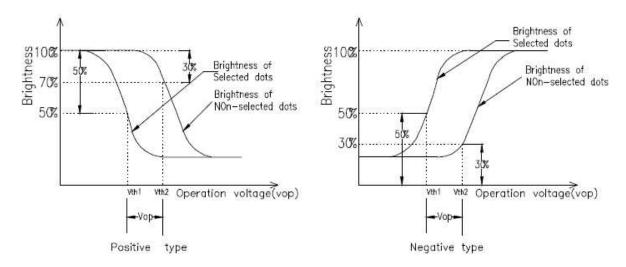
1. Features:

I	tem	Feature	Item	Feature	
Panel I	Dimension	50.80 X 25.4/21.4	Viewing Area	Viewing Area 47.8 X 18.40	
Displ	ay Mode	TN	Driving Condition	1/4Duty, 1/3Bias, 3.3V	
Displ	ay Type	Reflective	Viewing Direction	6Н	
Calan	Display	Black	Operation Temp	0°C~50°C	
Color	Ground	White	Storage Temp	-10°C~60°C	
Con	nector	PIN			

2. Electro-optical Characteristics:

I LOSS		6 1 1	T .**	Rating			2028365	22007
Item		Symbol	Temp(°C)−	Min	Тур	Max	Unit	Note
Recommended Driving Voltage		Vop	0	2.9	3.1	3.3	v	Note1
			25	3.1	3.3	3.5		
			50	3.3	3.5	3.7		
Response Time			0	- "		я	- Ms	Note2
	Rise Time	Tr	25	12	150	90		
			50	-	15%	in		
	Fall Time	Tf	0		(4)	14		
			25	Ē	55	120		
			50	2	(4)	14		
Frame Fi	requency	fF	25	32	64	200	Hz	
D.C Res	sistance	R _{LC}	25	-	194	я	ΜΩ	
Viewing angle Cr≧2	ψ=0°	θ_1		12	45	12	Deg	Note4
	ψ=180°	θ_2	25	25	45	in		
	ψ=90°	θ ₃		2	10	T T		
	ψ=270°	θ4		ā	40	Œ.		
Viev	ving Direc	tion		50	6 CLOCK			
Contrast Ratio Cr		Cr	25	4	120	-57	173	Note3

Notel. Definition of operation voltage (Vop)



Conditions

Vth1: (1)Temperature: See Individual Specification

(2) Viewing Angle (θ): Minimum Value Individual Specification

(3) Driving Frequency: Maximum Value In Individual Specification

(4) Waveform: Selected Waveform

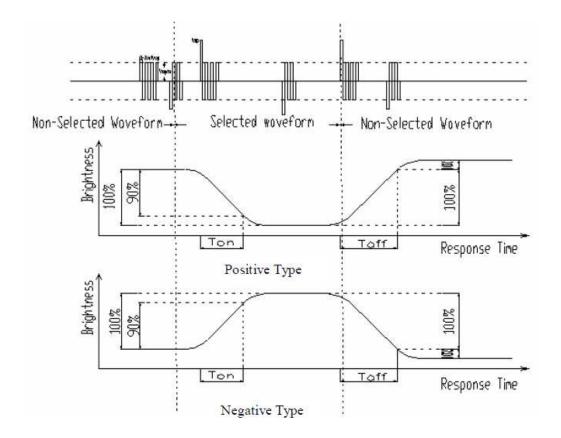
Vth2: (1)Temperature: See Individual Specification

(2) Viewing Angle(θ): Maximum Value In Individual Specification

(3) Driving Frequency: Maximum Value In Individual Specification

(4) Waveform: Non-selected Waveform

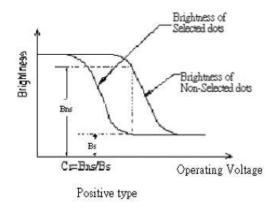
Note 2. Definition of response time

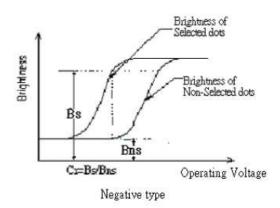


Conditions:

- (1) Viewing Angle(θ):Minimum Value In Individual Specification
- (2) Operating Voltage (Vop): See Individual Specification
- (3) Driving Frequency: Typical Value In Individual Specification
- (4) Driving Waveform: See Individual Specification
- (5) Measuring Temperature: See Individual Specification

Note 3 Definition of contrast ratio C.R





Conditions:

(1) Operating Voltage: Vop

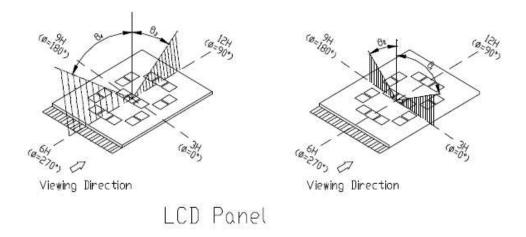
(2) Temperature: See Individual Specification

(3) Viewing Angles: See Individual Specification

(4) Driving Frequency: Typical value In Individual Specification

(5) Driving waveform: 1/N Duty, 1/a Bias waveform

Note 4 Viewing Angle



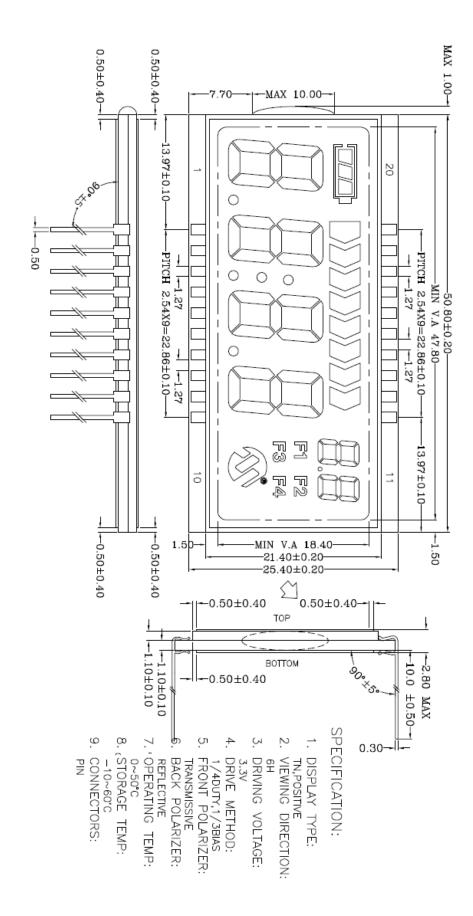
Viewing Angles (θ_1 , θ_2 , θ_3 , θ_4) measuring conditions:

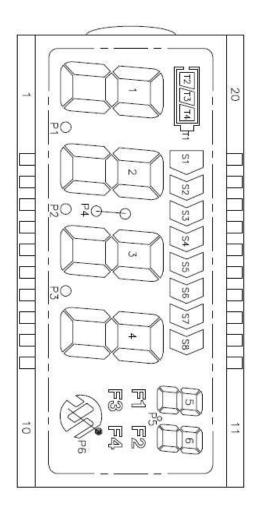
(1) Temperature: See Individual Specification

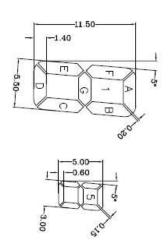
(2)Operation Voltage (Vop): See Individual Specification

(3) Contrast Ratio (Cr) Minimum: Cr =2

(4) Driving Frequency: See Individual Specification







8	8	2	8	I
	m	+	5	_
d V	ನ	ҕ	1	N
8	M	M	B	W
8	B	8	6	4
H	H	1	8	UI
8	8	8	H	0
6	A	4	8	7
R	6	6	4	00
8	7	3	3	9
8	8	8	73	7
8	4	A	8	4
H	8	8	R	D
9	4	H	8	ದ
	8	1-21-3-4	88	Ź
2	S	K	2	र्ज
1 2 28	% 33 T2	S7 S2 T3	SS S1 T1 CW	15 16 17
2F.)			8	1
		8		
	600			18 19 20
ð				H

