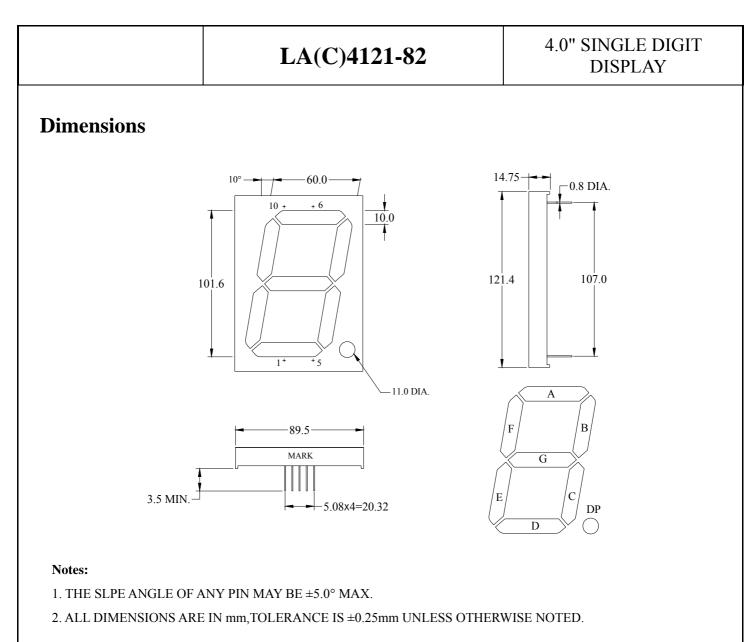
SPECIFICATION

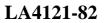
PART NO. : LA(C)4121-82 EWEW 4.0"(101.6mm)SINGLE DIGIT DISPLAY



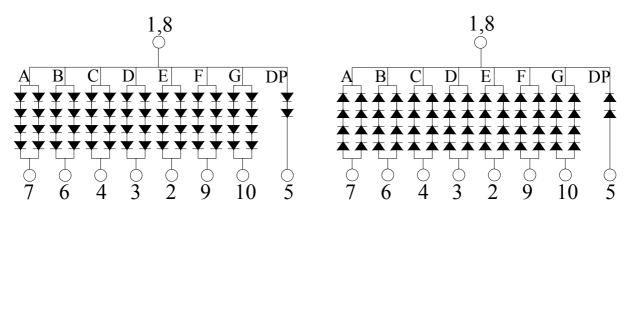
Approved by	Checked by	Prepared by
Sam	Jimmy	Danny



Internal Circuit Diagram



LC4121-82



	LA	4.0	4.0" SINGLE DIGIT DISPLAY			
Description						
Part No.	LED Chip		Face Color			
	Э.	Material	Emitting Color	Surface	Segments	
LA4121-82 E	WEW	GaP/GaP	Green	Grey	White	
LC4121-82 E	WEW	GaP/GaP	Green	Grey	White	

Absolute Maximum Ratings at Ta=25 $^\circ\!\!\mathbb{C}$

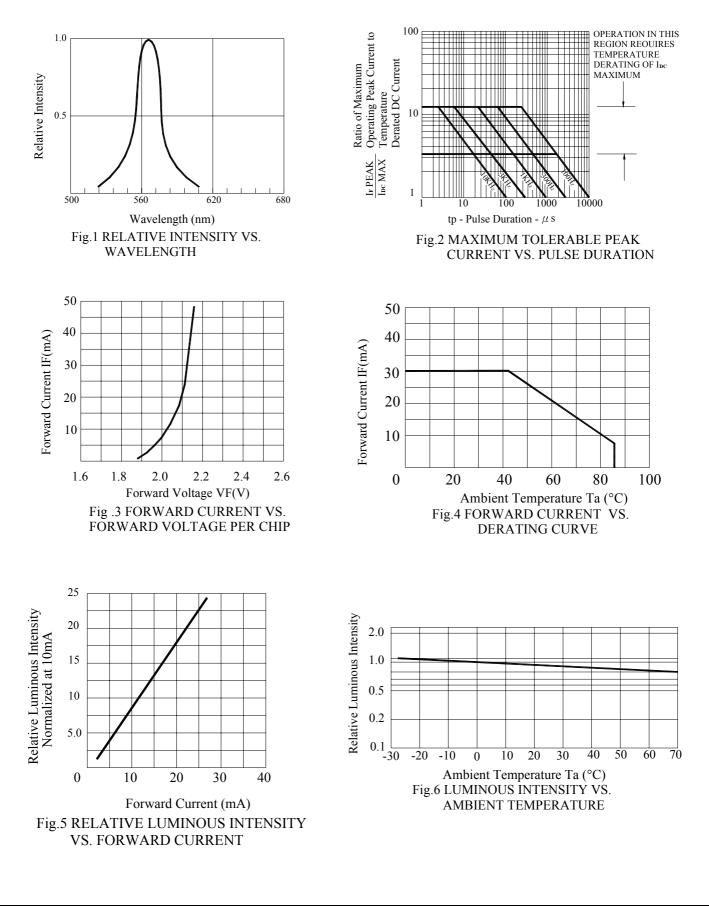
Parameter	Symbol		Rating	Unit	
Down Dissinction Day Second	PD	DP	156	mW	
Power Dissipation Per Segment		SEG	624		
Pulse Current(1/10Duty Cycle,0.1ms Pulse Width.)Per Chip	IFP		100	mA	
Forward Current Per Chip	IF		30	mA	
Reverse (Leakage)Current Per Chip	Ir		100	uA	
Reverse Voltage Per Chip	VR		5	V	
Operating Temperature Range	Topr.		opr25 to +85		
Storage Temperature Range	Tstg.		Tstg40 to +100		
Lead Soldering Temperature.(1.6mm from seating plane)	Tsol.		Tsol. 260 for 5s MAX.		

4.0" SINGLE DIGIT DISPLAY

Electrical and Optical Characteristics:

Parameter	Symbol		Condition	Min.	Тур.	Max.	Unit
Luminous Intensity Per Segment	Iv		If=10mA/seg.	5.4	8.6		mcd
Forward Voltage	Vf	DP	If=20mA/seg.		4.2	5.2	N
		SEG	If=20mA/seg.		8.4	10.4	V
Peak Wavelength	λΡ		If=20mA/seg.		567		nm
Dominant Wavelength	λD		If=20mA/seg.		572		nm
Reverse Current Per Chip (Leakage Current Per Chip)	Ir		Vr=5V			100	μΑ
Spectrum Line Halfwidth	Δλ		If=20mA/seg.		30		nm
Response Time	Т				250		ns

Typical Electrical/Optical Characteristic Curves (25°C Ambient Temperature Unless Otherwise Noted)



Precautions in Use:

1

PLEASE PAY SPECIAL ATTNTION TO THE NEXT POINT TO INCORPORATE OPTO DEVICE TO HIGH RELIABILITY

1. Do not bend the lead. Bending leads could cause breakage of leads or the degradation of the chip.

When bending is unavoidable, strictly follow the cautionary instruction below.

(1)Bend the leads before soldering.

(2)Bending a lead must be done by fixing a lead tightly and applying no stress on the resin part.

(3)The lead bending point must be more than 1.6mm away from the edge or the resin part.

(4)When a pin is tested for its endurance, bending degree should be 45° and repeated no more than two times.

2. Setting a product by using tool such as a holder should be avoided.

When necessary, no stress should be applied to the resin part and lead to consider dimension tolerance, thermal expansion, thermal contraction of holder, product and circuit board etc.

3. The hole pitch of a circuit board must fit into the lead pitch of products.

4. When soldering, care the followings:

(1)Do not heat a product under any stress (i.e.: twist) to leads.

(2)Do not heat (for example, by soldering) a product while out side force is applied the resin part.

(3)The temperature of a product should not exceed the specified maximum storage temperature.

(4)Soldering with PC Board should be conducted with following conditions.

(a) For dip soldering

Pre-heating : 90°C Max. for within 60 Sec.

Soldering bath : 260±5°C (Solder Temp.) for within 5 Sec.

- (b) Soldering iron : 350° C (Soldering iron tip) for within 3 Sec.
- 5. Flux could corrode the leads.Use flux that contains as little chlorine as possible (RA, RMA,

less than 0.2 wt%) and need not be washed way. When, however, washing is necessary, partially wash around the leads, instead of the entire LED, by the following conditions.

Cleaning agent : Methyl Alcohol

Cleaning temp : $45^{\circ}CMAX$.

Cleaning time : 30Sec. MAX.

6. Minimum amount of soldering flux should be used. Soldering flux should be applied only to the pin portion.

7. The following may damage products or LED chips: Attachment or contact of residual flux solvent onto the product surface or to LED chips, or invasion of the same into the product.