

LEDTECH ELECTRONICS CORP.

NANYA ROAD,MUGANG ZHAOQING CITY GUANGDONG CHINA. TEL:86-758-2875541,2870651,2877464,2876185,2877017 FAX:86-758-2878014 *Http://www.ledtech.com.tw*

SPECIFICATION

PART NO. : LJ7021-12(22) EWRN 0.68"(17.24mm)5x7 DOT MATRIX DISPLAY



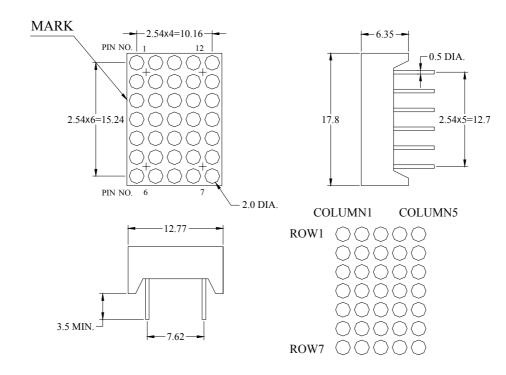
Approved by	Checked by	Prepared by
Tung	Andy	Zhou



LJ7021-12(22)

0.68"5x7 DOT MATRIX DISPLAY

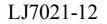
Dimensions



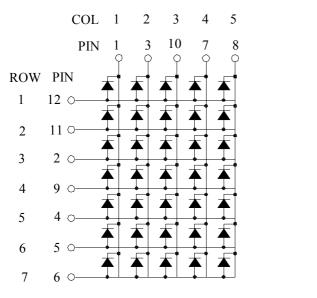
Notes:

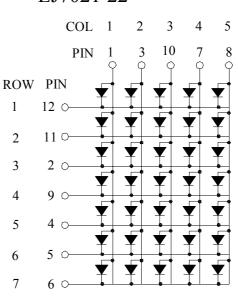
- 1. The slope angle of any PIN may be $\pm 5.0^{\circ}$ Max.
- 2. All dimensions are in mm, tolerance is ± 0.25 mm unless otherwise noted.

Internal Circuit Diagram



LJ7021-22







Description

Part No.	LED Chip		Face Color	
	Material	Emitting Color	Surface	Segments
LJ7021-12 EWRN	GaP/GaP	Green	Grey	White
LJ7021-22 EWRN	GaP/GaP	Green	Grey	White

Absolute Maximum Ratings at Ta=25 °C

Parameter	Symb ol	Rating	Unit	
Power Dissipation Per Dot	Pd	78	mW	
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.	-25 to +85	°C	
Storage Temperature Range	Tstg.	-40 to +100	°C	
Lead Soldering Temperature.(1.6mm from seating plane)	Tsol.	Dip Soldering: 260°C for 5 sec. Hand Soldering: 350°C for 3 sec.		



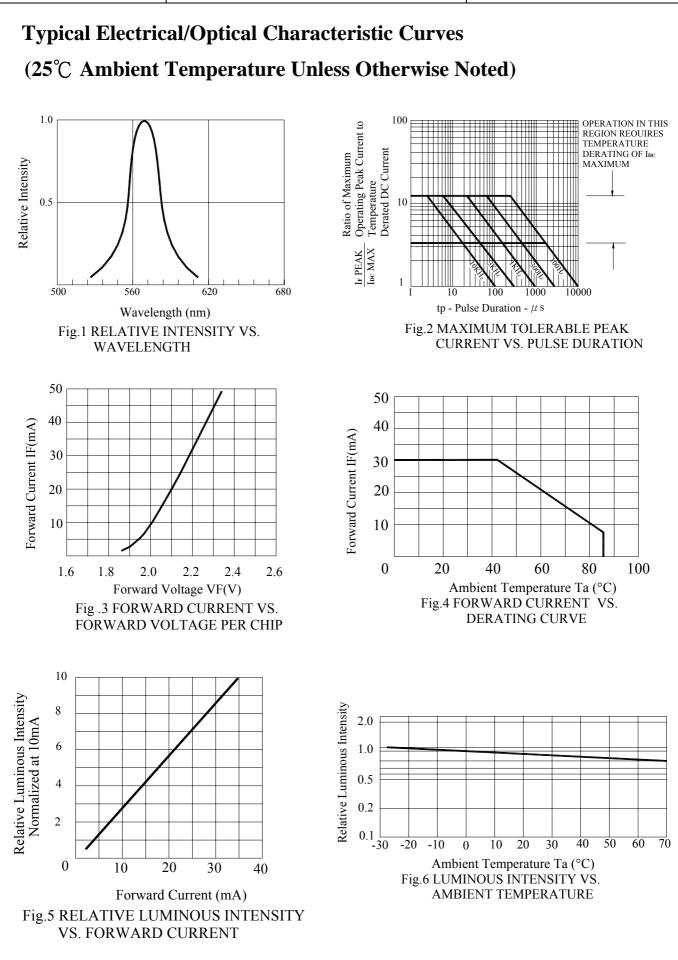
0.68"5x7 DOT MATRIX DISPLAY

Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity Per Dot	Iv	If=10mA/Dot.	1.15	2.9		mcd
Forward Voltage	Vf	If=20mA/ Dot.		2.1	2.6	V
Peak Wavelength	λp	If=20mA/ Dot.		567		nm
Dominant Wavelength	λd	If=20mA/ Dot.		572		nm
Reverse Current Per Chip (Leakage Current Per Chip)	Ir	Vr=5V			100	μΑ
Spectrum Line Halfwidth	Δλ	If=20mA/ Dot.		30		nm
Response Time	Т			250		ns

Note: Customer's special requirements are also welcome.







Precautions in Use:

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 lead bending point must be more than 1.6mm away from the edge or the resin part.
 - (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 Max. : $260\pm5^{\circ}$ 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° C Max.

- 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.