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SPECIFICATION

PART NO. : LA(C)5612-11-UR93 BWRS 0.56"(14.22mm) DUAL DIGIT DISPLAY



Approved by	Checked by	Prepared by
Yue	Lian	Min Bao

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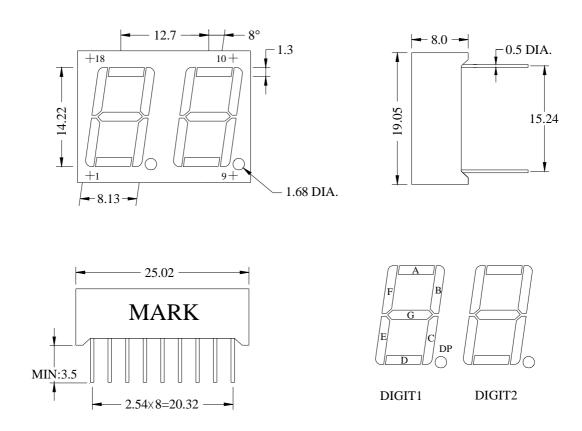


MODIFY RECORD

TAKE EFFECT DATE	MODIFY ISSUES	REMARKS



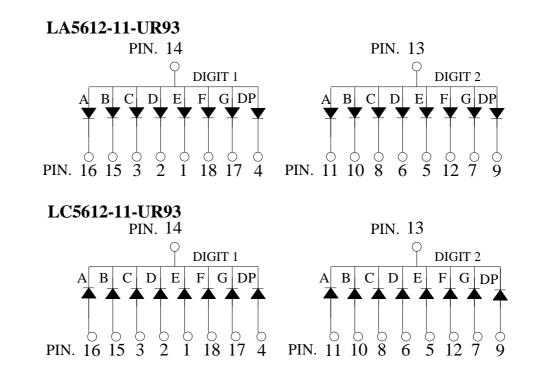
Dimensions



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





Description

Part No.	LED Chip		Face Color	
	Material	Emitting Color	Surface	Segments
LA5612-11-UR93 BWRS	AlGaInP/GaAs	Deep Red	Black	White
LC5612-11-UR93 BWRS	AlGaInP/GaAs	Deep Red	Black	White

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

Parameter	Symbol	Rating	Unit	
Power Dissipation	Pd	72	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	
Soldering Temperature.	Tsol.	Dip Soldering: 260°C for 5 sec. Hand Soldering: 350°C for 3 sec.		



Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity	Iv	If=10mA/seg	22.0	42.0		mcd
Forward Voltage	Vf	If=20mA/seg		1.9	2.4	V
Peak Wavelength	λΡ	If=20mA/seg		650		nm
Dominant Wavelength	λD	If=20mA/seg		639		nm
Reverse Current Per Chip (Leakage Current Per Chip)	Ir	Vr=5V			100	μΑ
Spectrum Line Halfwidth	Δλ	If=20mA/seg		20		nm
Response Time	Т			250		ns

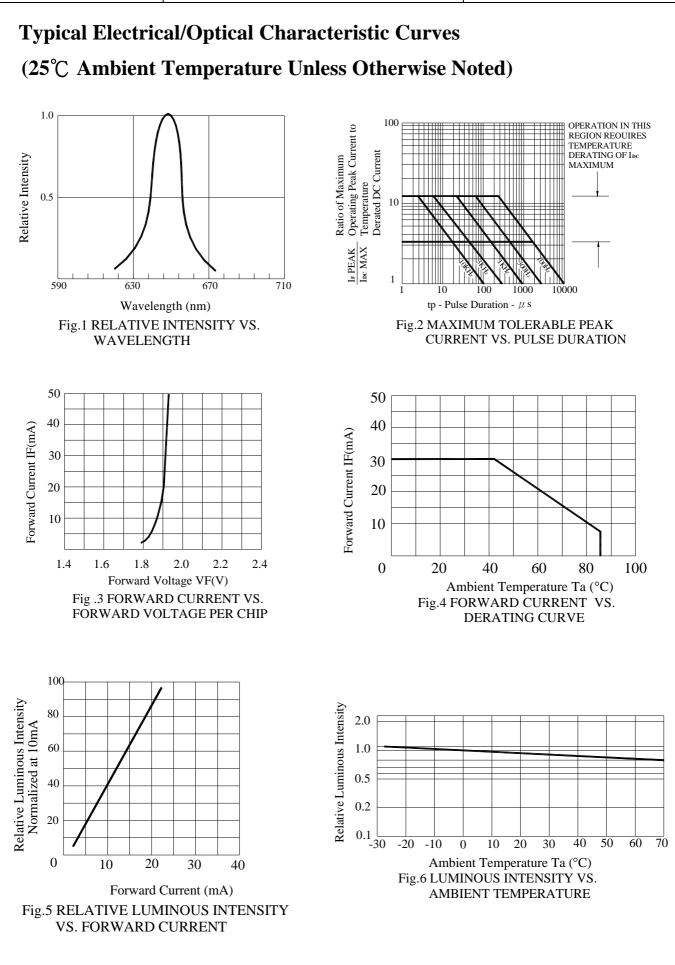
Notes: 1.Tolerance of Luminous Intensity is $\pm 15\%$

2. Tolerance of Forward Voltage is ± 0.1 V

3.Tolerance of Dominant Wavelength is ±1nm

4. Customer's special requirements are also welcome







LA(C)5612-11-UR93

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 $^\circ\!\mathrm{C}$ Max. for within 60 Sec.

Soldering Max. : 260 \pm 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° 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.

Disclaimer

- 1. Our department reserves the right(s) on the adjustment of product material mix for the specification.
- 2. The product meets our department published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Our department assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 5. These specification sheets include materials protected under copyright of our department. Reproduction in any form is prohibited without obtaining our department 's prior consent.
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