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SPECIFICATION

PART NO. : LA(C)2521-21-URC9 EWRN
1.0"(25.4mm)SINGLE DIGIT DISPLAY

Approved by

Checked by

Prepared by

Fang Po

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1.0"(25.4mm) SINGLE DIGIT DISPLAY

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Features

- * 1.0-INCH(25.4-mm) DIGIT HEIGHT.**
- * LOW CURRENT REQUIREMENTS.**
- * WIDE VIEWING ANGLE.**
- * SOLID STATE RELIABILITY**
- * I.C. COMPATIBLE.**
- * CATEGORIZED FOR LUMINOUS INTENSITY.**

Description

The LA(C)2521-21-URC9 is a 1.0-inch (25.4-mm) digit height single digit seven-segment display.

The true green LED chips are made from InGaN on a transparent Sapphire substrate.
The device has a grey face and white segments.

Part No.	LED Chip		Description
	Material	Emitting Color	
LA2521-21-URC9 EWRN	InGaN/ Sapphire	True green	Common Anode
LC2521-21-URC9 EWRN			Common Cathode

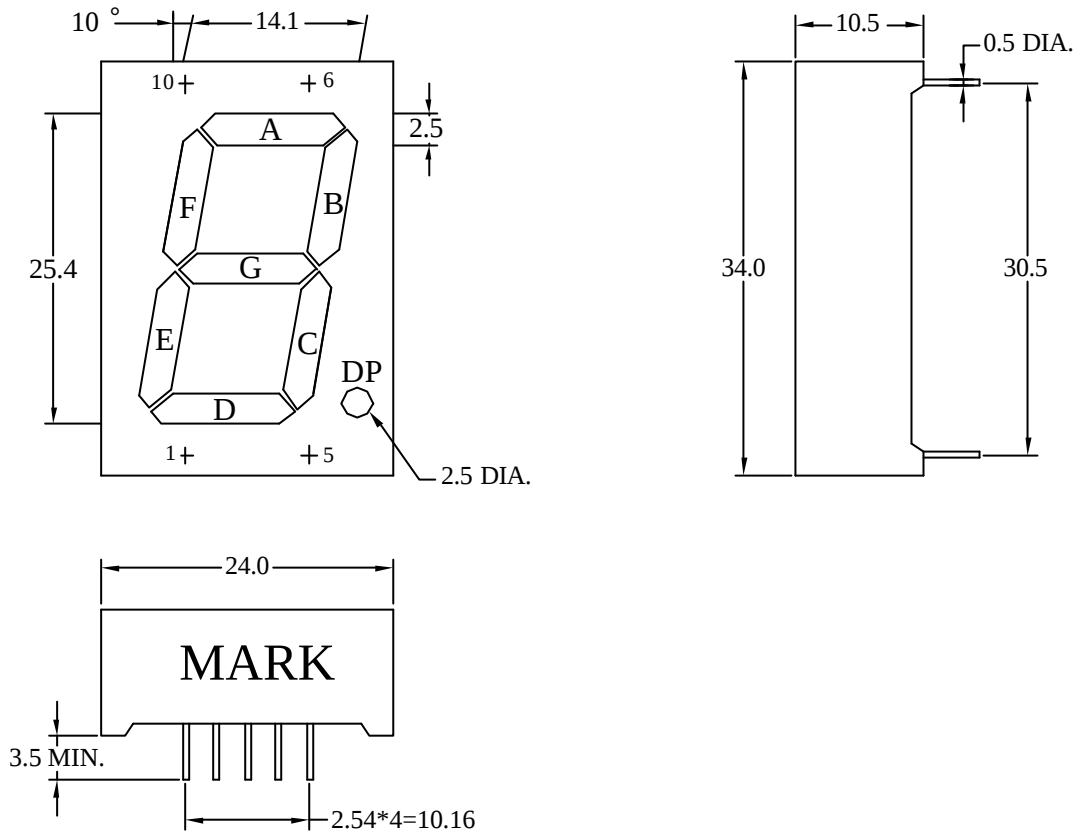


1.0"(25.4mm) SINGLE DIGIT DISPLAY

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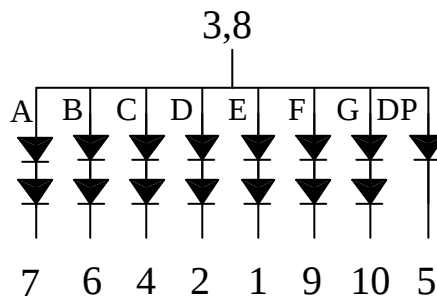
Package Dimensions



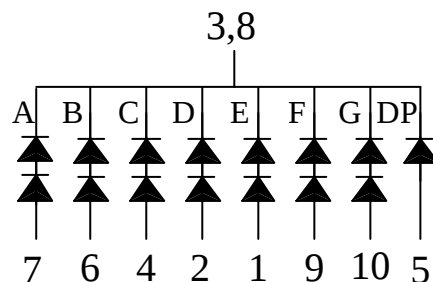
1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS $\pm 0.25\text{mm}$ UNLESS OTHERWISE NOTED.
2. THE SLOPE ANGLE OF ANY PIN MAY BE $\pm 5.0^\circ$ MAX.

Internal Circuit Diagram

LA2521-21-URC9



LC2521-21-URC9





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Pin Function

LA2521-21-URC9		LC2521-21-URC9	
Pin No.	Function	Pin No.	Function
1	CATHODE E	1	ANODE E
2	CATHODE D	2	ANODE D
3	COMMON ANODE	3	COMMON CATHODE
4	CATHODE C	4	ANODE C
5	CATHODE DP	5	ANODE DP
6	CATHODE B	6	ANODE B
7	CATHODE A	7	ANODE A
8	COMMON ANODE	8	COMMON CATHODE
9	CATHODE F	9	ANODE F
10	CATHODE G	10	ANODE G



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Absolute Maximum Ratings at Ta=25

Parameter	Symbol	Rating	Unit
Reverse Voltage Per LED Chip	V _r	5	V
D.C. Forward Current Per LED Chip	I _f	30	mA
Pulse Current Per LED Chip (1/10 Duty Cycle , 0.1 ms Pulse Width)	I _f (Peak)	100	mA
Operating Temperature Range	T _{opr}	-25 to +85	
Storage Temperature Range	T _{stg}	-40 to +100	
Lead Soldering Temp.(1.6mm from seating plane) for 3 seconds		260	

Electrical and Optical Characteristics :

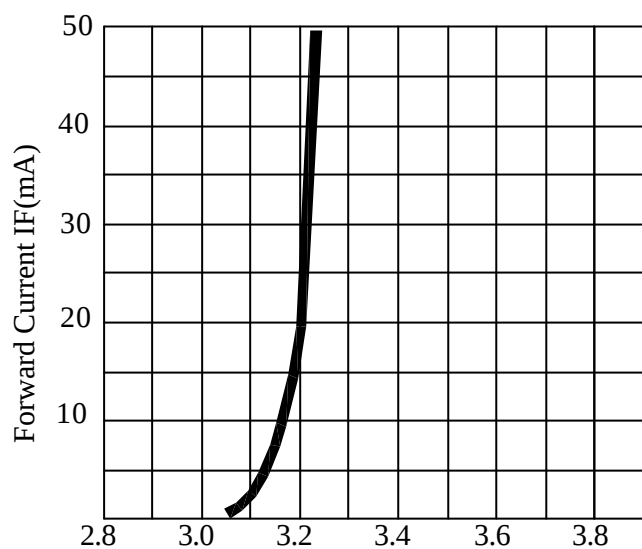
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f =10mA	15.0	26.0		mcd
Forward Voltage Per Segment	V _f	I _f =20mA		6.4	8.0	V
				3.2	4.0	
Wavelength	λ P	I _f =20mA		520		nm
	λ D			525		
Reverse Current Per Segment	I _r	V _r =10V			100	μ A
Spectrum Line Halfwidth	λ	I _f =20mA		35		nm



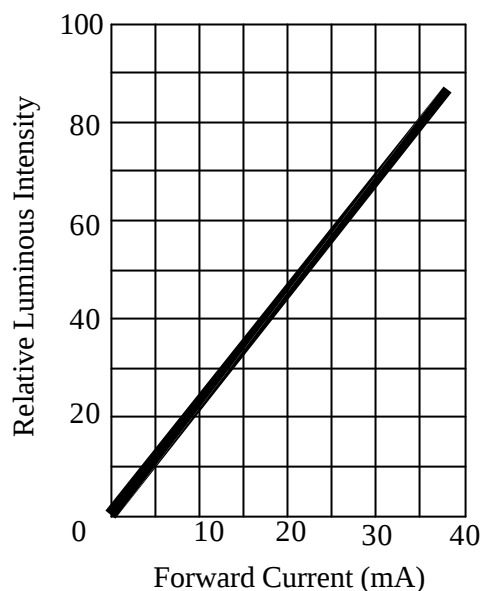
1.0"(25.4mm) SINGLE DIGIT DISPLAY
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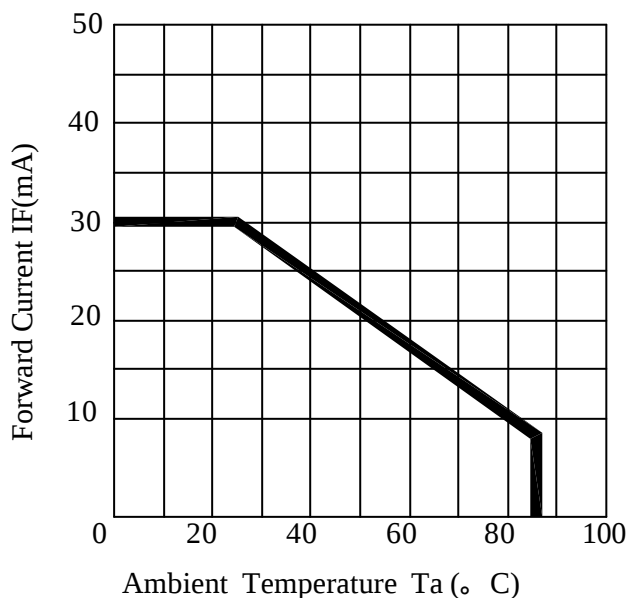
Typical Electrical/Optical Characteristic Curves
(25 Ambient Temperature Unless Otherwise Noted)



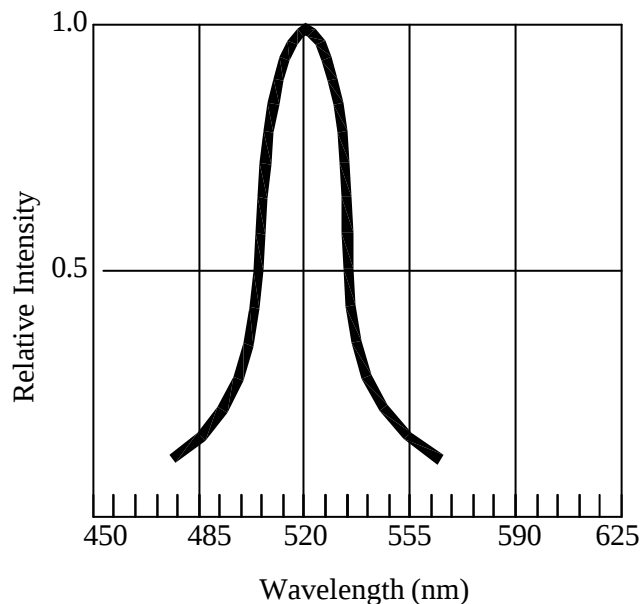
FORWARD CURRENT VS. APPLIED VOLTAGE
(PER CHIP)



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH