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LEDTECH ELECTRONICS CORP.

SPECIFICATION

PART NO. : LA(C)3041-21 EWRS

0.3"(8.0mm) SINGLE DIGIT DISPLAY

Approved by	Checked by	Prepared by
<i>Jack</i>	<i>Dodo</i>	<i>Cure</i>



**0.3"(8.0mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)3041-21 EWRS**

Features

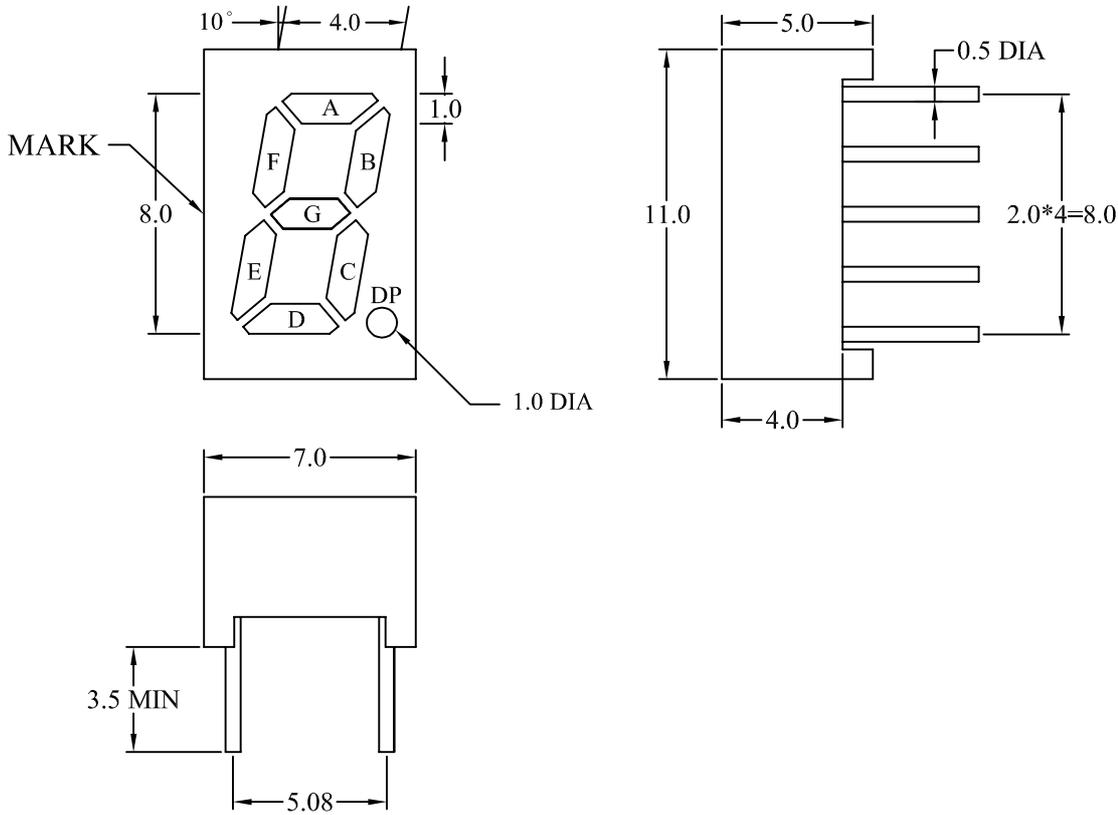
- * **0.3-INCH(8.0-mm) DIGIT HEIGHT.**
- * **LOW CURRENT REQUIREMENTS.**
- * **WIDE VIEWING ANGLE.**
- * **SOLID STATE RELIABILITY**
- * **I.C. COMPATIBLE.**
- * **CATEGORIZED FOR LUMINOUS INTENSITY.**

Description

The LA(C)3041-21 is a 0.3-inch (8.0-mm) digit height single digit seven- segment display. The Orange LED chips are made from GaAsP on a transparent GaP substrate. The device has a grey face and white segments.

Part No.	LED Chip		Description
	Material	Emitting Color	
LA3041-21 EWRS	GaAsP/GaP	ORANGE	Common Anode
LC3041-21 EWRS			Common Cathode

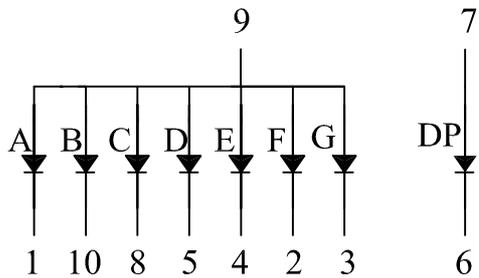
Package Dimensions



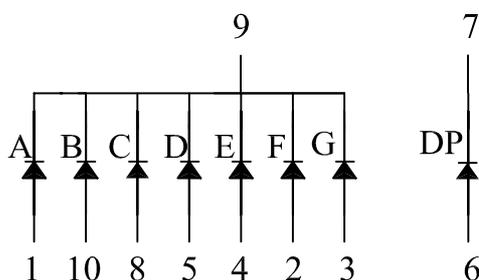
1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS ± 0.25 mm UNLESS OTHERWISE NOTED.
2. THE SLOPE ANGLE OF ANY PIN MAY BE $\pm 5.0^\circ$ MAX.

Internal Circuit Diagram

LA3041-21



LC3041-21





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Pin Function

LA3041-21		LC3041-21	
Pin No.	Function	Pin No.	Function
1	CATHODE A	1	ANODE A
2	CATHODE F	2	ANODE F
3	CATHODE G	3	ANODE G
4	CATHODE E	4	ANODE E
5	CATHODE D	5	ANODE D
6	CATHODE DP	6	ANODE DP
7	ANODE DP	7	CATHODE DP
8	CATHODE C	8	ANODE C
9	COMMON ANODE	9	COMMON CATHODE
10	CATHODE A	10	ANODE A



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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage Per LED Chip	Vr	5	V
D.C. Forward Current Per LED Chip	If	30	mA
Pulse Current Per LED Chip (1/10 Duty Cycle , 0.1 ms Pulse Width)	If(Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	°C
Storage Temperature Range	Tstg	-40 to +100	°C
Lead Soldering Temp.(1.6mm from seating plane) for 3 seconds		260	°C

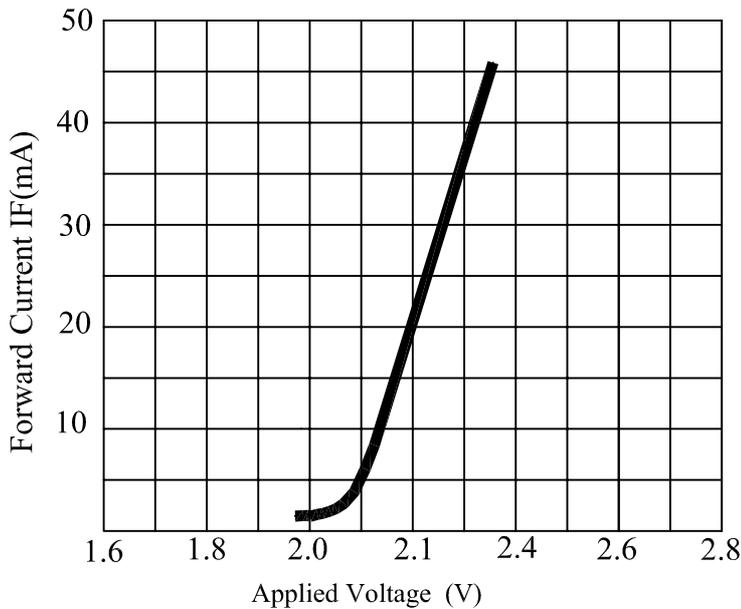
Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=10mA	2.0	3.3		mcd
Forward Voltage Per Segment	Vf	If=20mA		2.1	2.6	V
Wavelength	λP	If=20mA		635		nm
	λD			626		
Reverse Current Per Segment	Ir	Vr=5V			100	μA
Spectrum Line Halfwidth	$\Delta \lambda$	If=20mA		35		nm

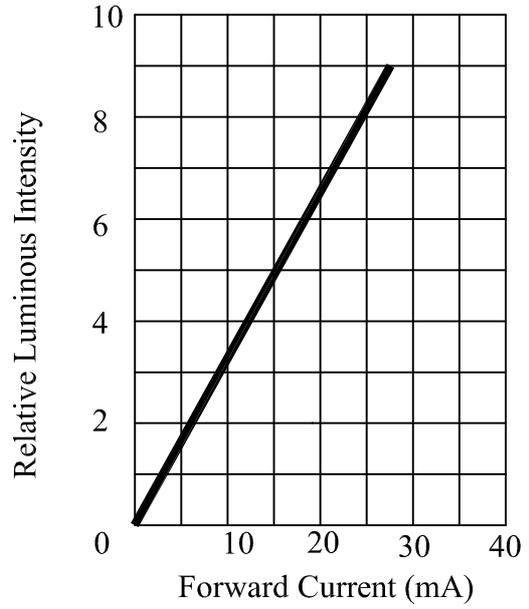


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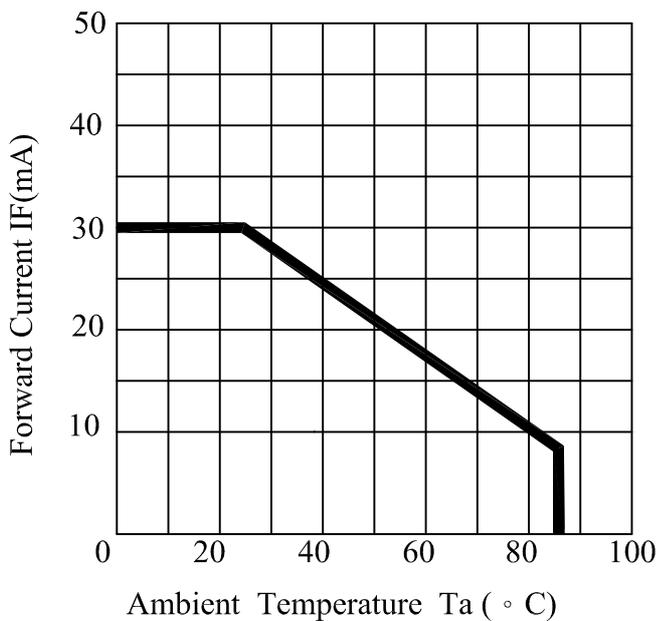
Typical Electrical/Optical Characteristic Curves
(25°C Ambient Temperature Unless Otherwise Noted)



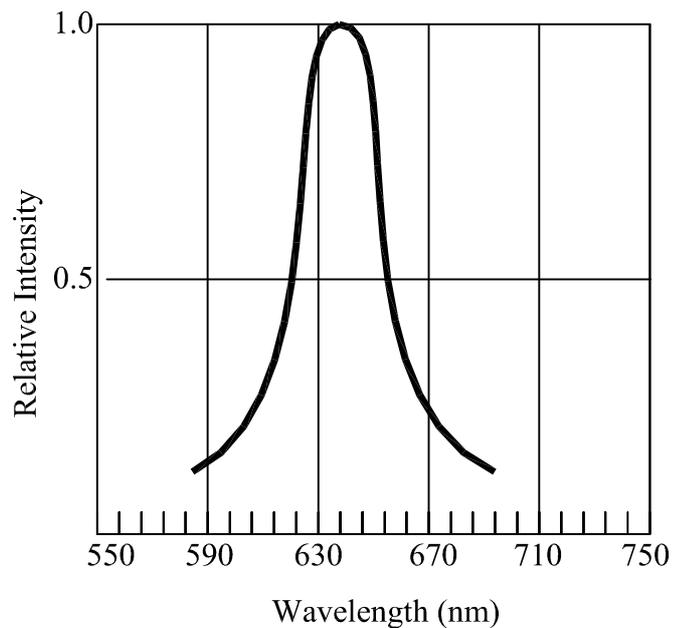
FORWARD CURRENT VS. APPLIED VOLTAGE



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH