



NANYA ROAD, MUGANG ZHAOQING CITY
GUANGDONG CHINA.

TEL: 86-758-2875541, 2870651, 2877464, 2876185, 2877017
FAX: 86-758-2878014

LEDTECH ELECTRONICS CORP.

[Http://www.ledtech.com.tw](http://www.ledtech.com.tw)

SPECIFICATION

*PART NO. : LA(C)2511-21-UR92 EWRN
1.0"(25.4mm) SINGLE DIGIT DISPLAY*

Approved by	Checked by	Prepared by
<i>Jack</i>	<i>Jang</i>	<i>Hong</i>



**1.0"(25.4mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)2511-21-UR92 EWRN**

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.**

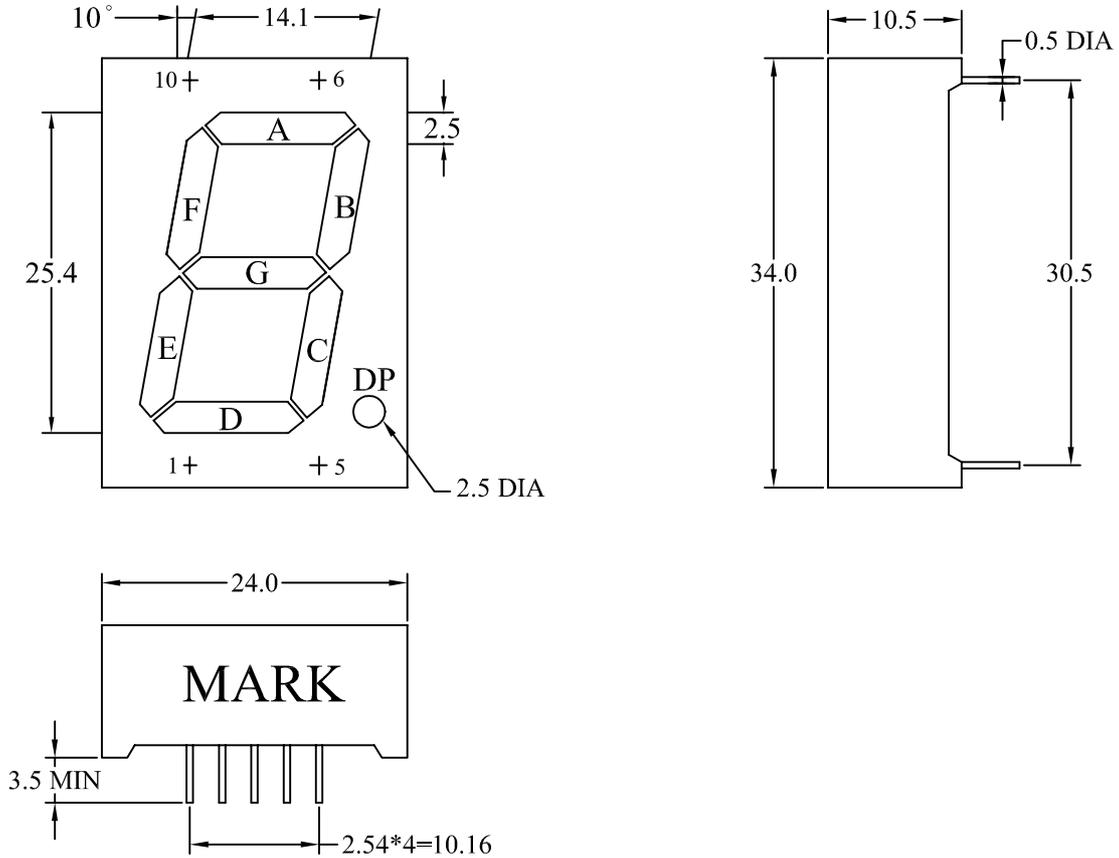
Description

The LA(C)2511-21-UR92 is a 1.0-inch (25.4-mm) digit height single digit seven-segment display.

The super red LED chips are made from AlGaInP on a transparent GaAs substrate. The device has a grey face and white segments.

Part No.	LED Chip		Description
	Material	Emitting Color	
LA2511-21-UR92 EWRN	AlGaInP/ GaAs	Super red	Common Anode
LC2511-21-UR92 EWRN			Common Cathode

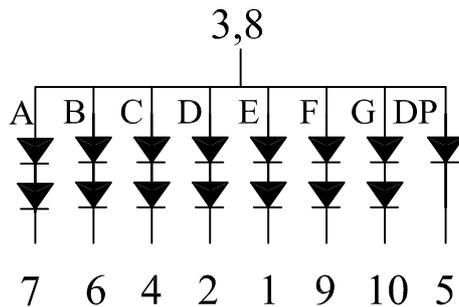
Package Dimensions



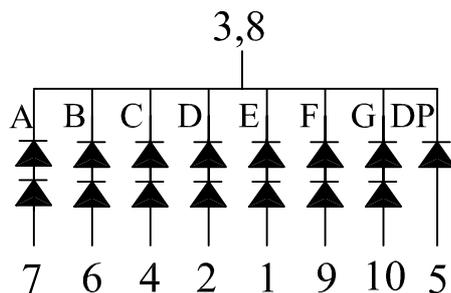
1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS ± 0.25 mm UNLESS OTHERWISE NOTED.
2. THE SLOPE ANGLE OF ANY PIN MAY BE $\pm 5.0^\circ$ MAX.

Internal Circuit Diagram

LA2511-21-UR92



LC2511-21-UR92





**1.0"(25.4mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)2511-21-UR92 EWRN**

Pin Function

LA2511-21-UR92		LC2511-21-UR92	
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



1.0"(25.4mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)2511-21-UR92 EWRN

Page : 4/5

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

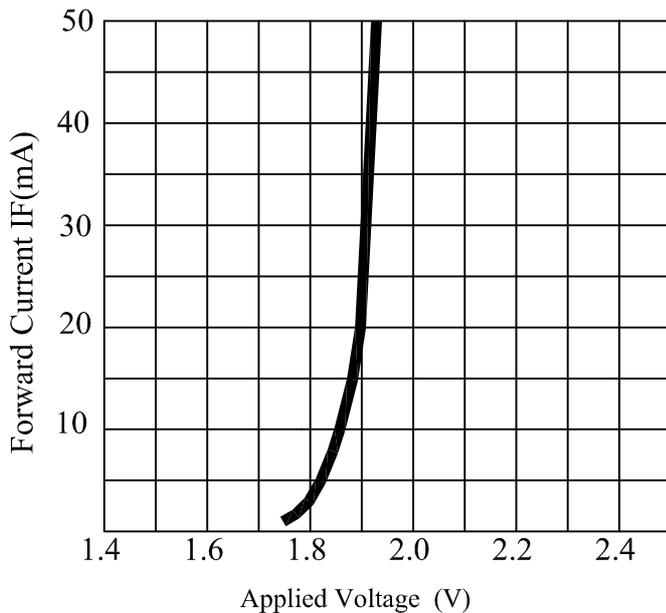
Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=10mA	13.0	22.5		mcd
Forward Voltage Per Segment	Vf	If=20mA		3.8	4.8	V
				1.9	2.4	
Wavelength	λ P	If=20mA		639		nm
	λ D			630		
Reverse Current Per Segment	Ir	Vr=10V			100	μ A
Spectrum Line Halfwidth	$\Delta\lambda$	If=20mA		20		nm

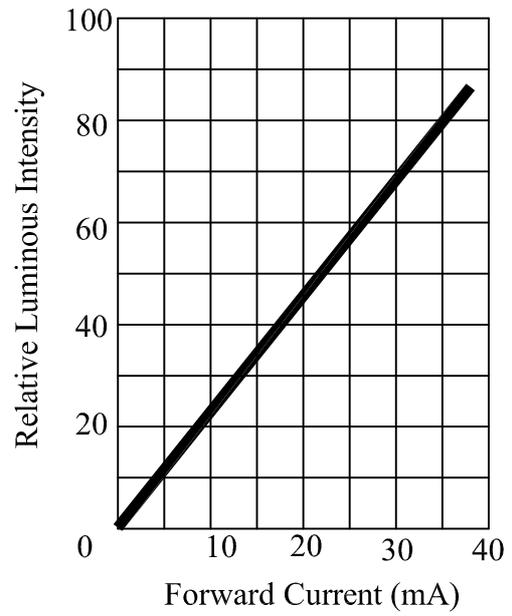


1.0"(25.4mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)2511-21-UR92 EWRN

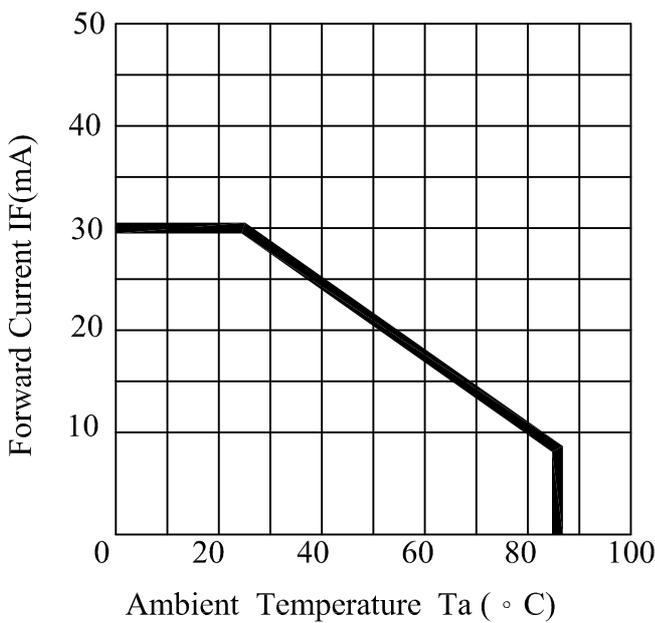
Typical Electrical/Optical Characteristic Curves
(25°C Ambient Temperature Unless Otherwise Noted)



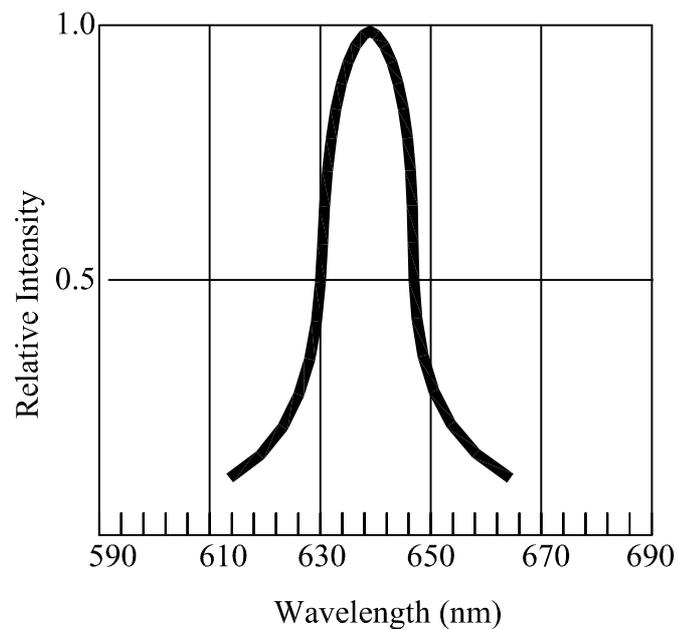
FORWARD CURRENT VS. APPLIED VOLTAGE
(PER CHIP)



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH