



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. : LA(C)4171-82-M1 EREW
4.0"(101.6mm) SINGLE DIGIT DISPLAY

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



4.0"(101.6mm) SINGLE DIGIT DISPLAY

PART NO. : LA(C)4171-82-M1 EREW

Page : 1/5

Features

- * 4.0-INCH(101.6-mm) DIGIT HEIGHT.**
- * LOW CURRENT REQUIREMENTS.**
- * WIDE VIEWING ANGLE.**
- * SOLID STATE RELIABILITY**
- * I.C. COMPATIBLE.**
- * CATEGORIZED FOR LUMINOUS INTENSITY.**

Description

The LA(C)4171-82-M1 is a 4.0-inch (101.6-mm) digit height single digit seven-segment display. The super red LED chips are made from AlGaAs on a transparent GaAs substrate. The device has a grey face and red segments.

Part No.	LED Chip		Description
	Material	Emitting Color	
LA4171-82-M1 EREW	AlGaAs/GaAs	SUPER RED	Common Anode
LC4171-82-M1 EREW			Common Cathode

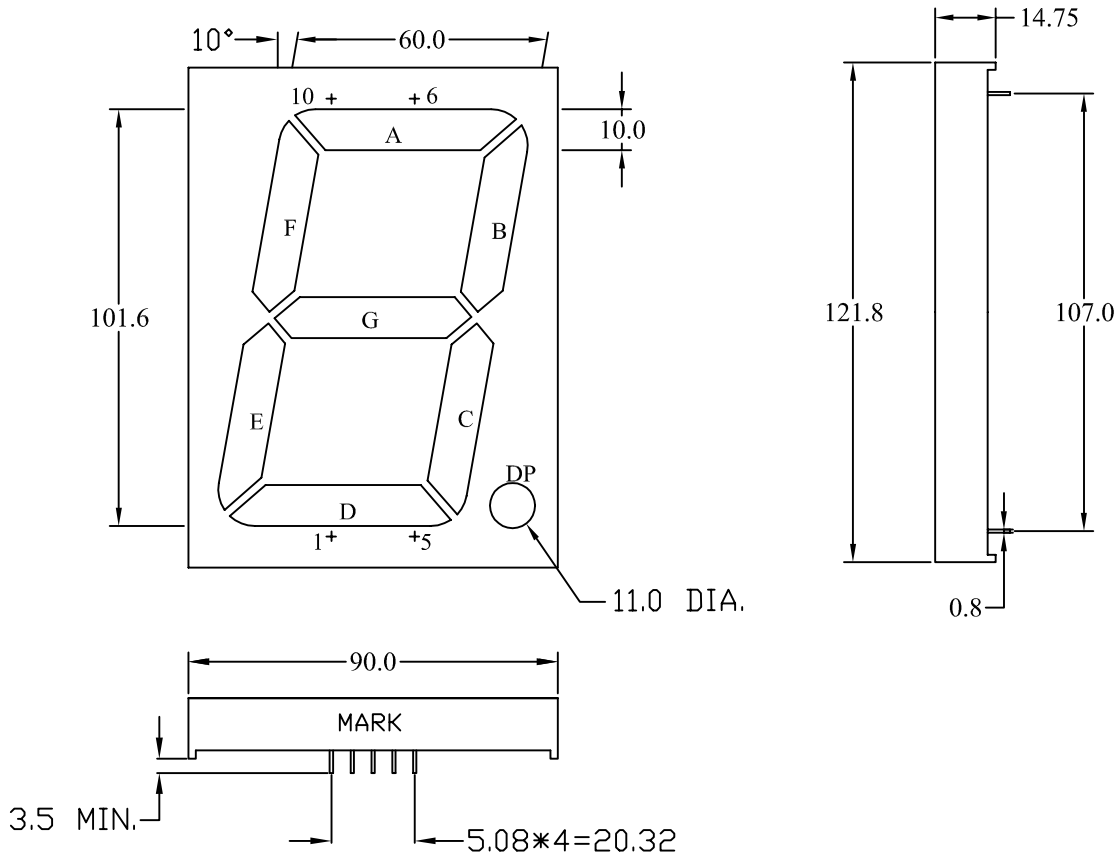


4.0"(101.6mm) SINGLE DIGIT DISPLAY

PART NO. : LA(C)4171-82-M1 EREW

Page : 2/5

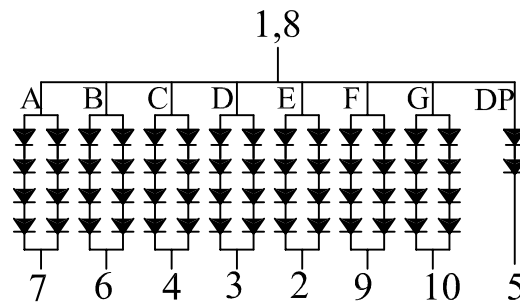
Package Dimensions



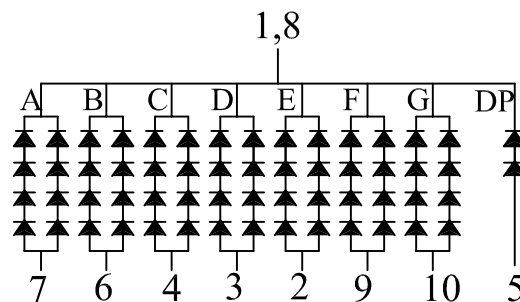
1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS $\pm 0.25\text{mm}$ UNLESS OTHERWISE NOTED.
2. THE SLOPE ANGLE OF ANY PIN MAY BE $\pm 5.0^\circ$ MAX.

Internal Circuit Diagram

LA4171-82-M1



LC4171-82-M1





4.0"(101.6mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)4171-82-M1 EREW

Page : 3/5

Pin Function

LA4171-82-M1		LC4171-82-M1	
Pin No.	Function	Pin No.	Function
1	COMMON ANODE	1	COMMON CATHODE
2	CATHODE E	2	ANODE E
3	CATHODE D	3	ANODE D
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



4.0"(101.6mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)4171-82-M1 EREW

Page : 4/5

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Reverse Votage 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	-25 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	2.8	4.8		mcd
Forward Voltage Per Segment	SEG.	If=40mA		7.2	8.8	V
	DP	If=20mA		3.6	4.4	
Peak Wavelength	λ P	If=20mA		660		nm
	λ D			643		
Reverse Current Per Segment	Ir	Vr=5V			100	μ A
Spectrum Line Halfwidth	$\triangle \lambda$	If=20mA		20		nm

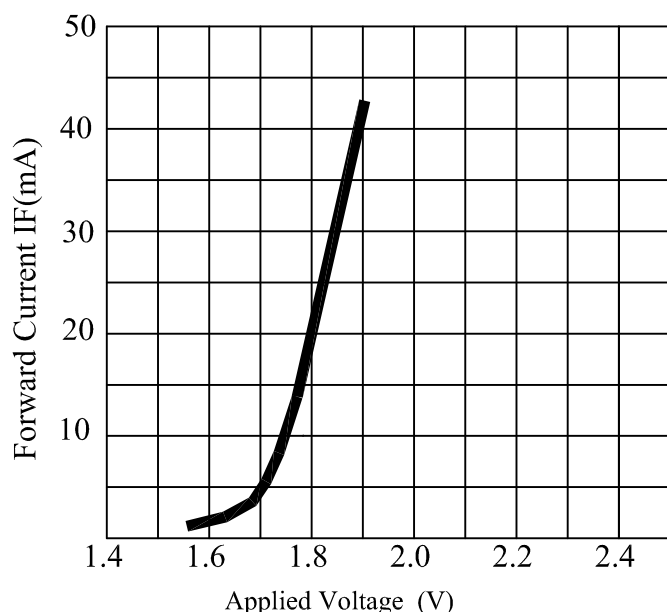


4.0"(101.6mm) SINGLE DIGIT DISPLAY

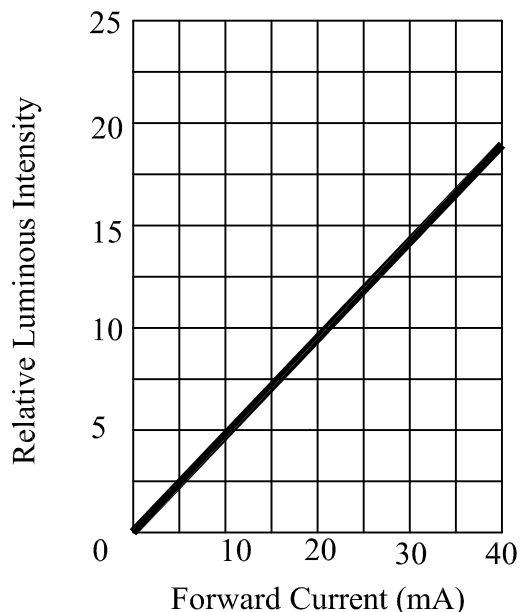
PART NO. : LA(C)4171-82-M1 EREW

Page : 5/5

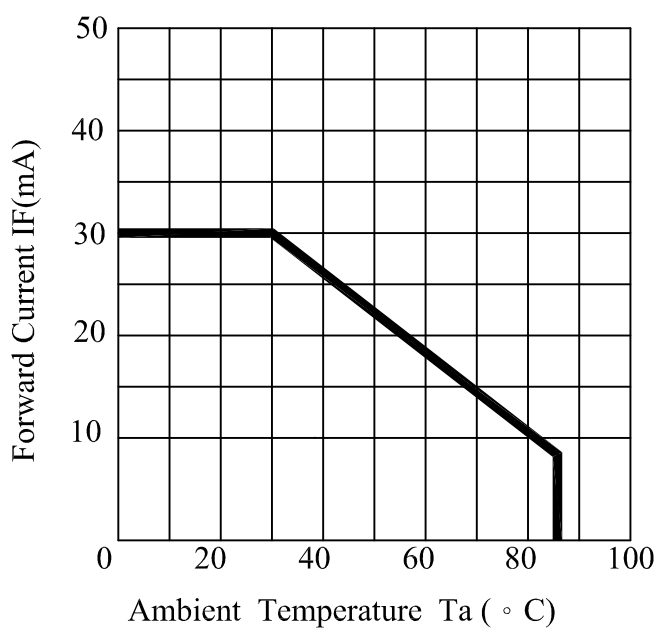
Typical Electrical/Optical Characteristic Curves
(25°C Ambient Temperature Unless Otherwise Noted)



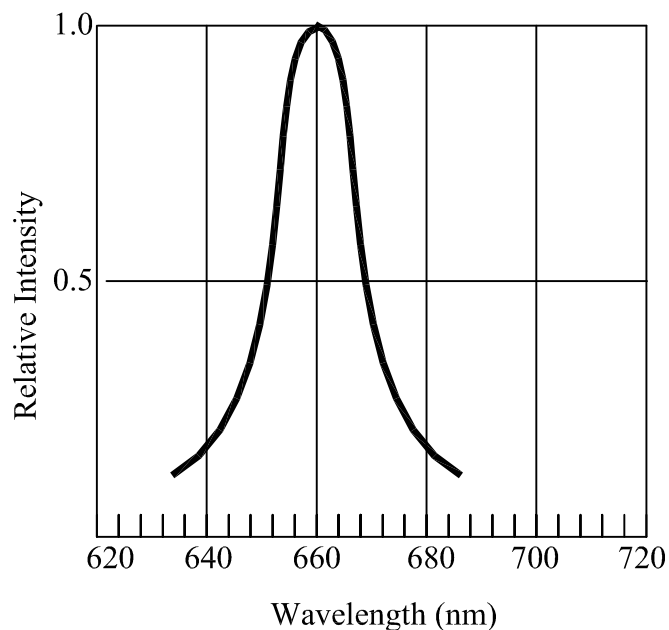
FORWARD CURRENT VS. APPLIED VOLTAGE
PER CHIP



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH