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SPECIFICATION

PART NO. : LA(C)5642-S12 EWAK

0.56"(14.2mm) DUAL DIGIT DISPLAY

Approved by

Checked by

Prepared by

Jack

Jang

Hong



0.56"(14.2mm) DUAL DIGIT DISPLAY
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Features

- * 0.56-INCH(14.2-mm) DIGIT HEIGHT.
- * LOW CURRENT REQUIREMENTS.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY
- * I.C. COMPATIBLE.
- * CATEGORIZED FOR LUMINOUS INTENSITY.

Description

The LA(C)5642-S12 is a 0.56-inch (14.2-mm) digit height dual 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.

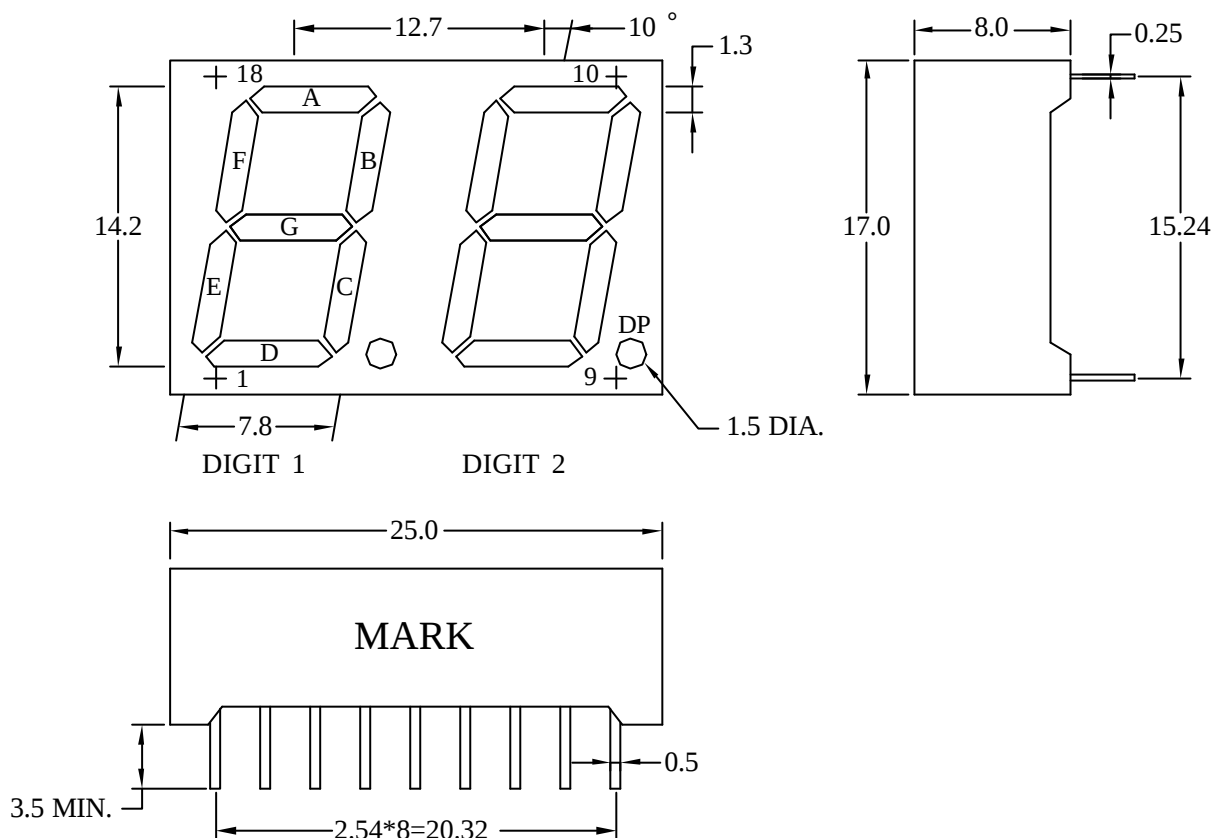
Part No.	LED Chip		Description
	Material	Emitting Color	
LA5642-S12 EWAK	GaAsP/GaP	Orange	Common Anode
LC5642-S12 EWAK			Common Cathode



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Package Dimensions

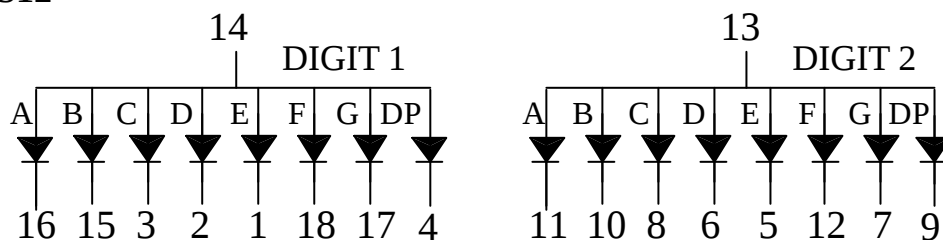


1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS $\pm 0.25\text{mm}$ UNLESS OTHERWISE NOTED.

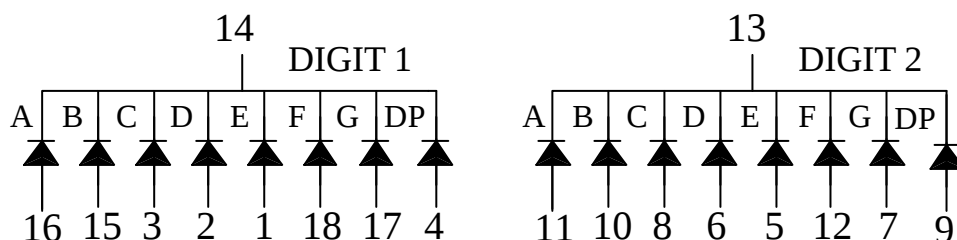
2. THE SLOPE ANGLE OF ANY PIN MAY BE $\pm 5.0^\circ$ MAX.

Internal Circuit Diagram

LA5642-S12



LC5642-S12





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Pin Function

LA5642-S12		LC5642-S12	
Pin No.	Function	Pin No.	Function
1	CATHODE E (DIGIT 1)	1	ANODE E (DIGIT 1)
2	CATHODE D (DIGIT 1)	2	ANODE D (DIGIT 1)
3	CATHODE C (DIGIT 1)	3	ANODE C (DIGIT 1)
4	CATHODE DP (DIGIT 1)	4	ANODE DP (DIGIT 1)
5	CATHODE E (DIGIT 2)	5	ANODE E (DIGIT 2)
6	CATHODE D (DIGIT 2)	6	ANODE D (DIGIT 2)
7	CATHODE G (DIGIT 2)	7	ANODE G (DIGIT 2)
8	CATHODE C (DIGIT 2)	8	ANODE C (DIGIT 2)
9	CATHODE DP (DIGIT 2)	9	ANODE DP (DIGIT 2)
10	CATHODE B (DIGIT 2)	10	ANODE B (DIGIT 2)
11	CATHODE A (DIGIT 2)	11	ANODE A (DIGIT 2)
12	CATHODE F (DIGIT 2)	12	ANODE F (DIGIT 2)
13	DIGIT 2 COMMON ANODE	13	DIGIT 2 COMMON CATHODE
14	DIGIT 1 COMMON ANODE	14	DIGIT 1 COMMON CATHODE
15	CATHODE B (DIGIT 1)	15	ANODE B (DIGIT 1)
16	CATHODE A (DIGIT 1)	16	ANODE A (DIGIT 1)
17	CATHODE G (DIGIT 1)	17	ANODE G (DIGIT 1)
18	CATHODE F (DIGIT 1)	18	ANODE F (DIGIT 1)



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Absolute Maximum Ratings at Ta=25

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	
Storage Temperature Range	Tstg	-40 to +100	
Lead Soldering Temp.(1.6mm from seating plane) for 3 seconds		260	

Electrical and Optical Characteristics :

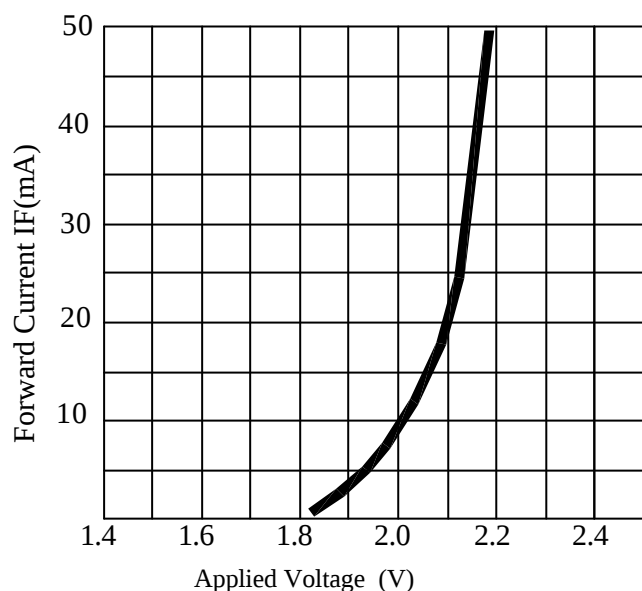
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=10mA	2.0	3.3		mcd
Forward Voltage Per Segment	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	λ P	If=20mA		635		nm
	λ D			626		
Reverse Current Per Segment	Ir	Vr=5V			100	μ A
Spectrum Line Halfwidth	λ	If=20mA		35		nm



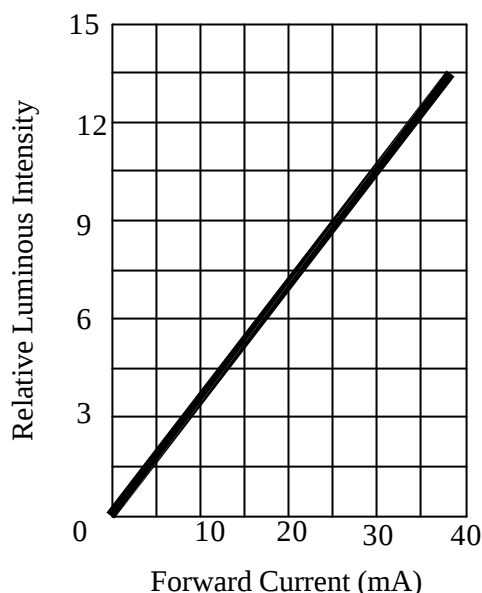
0.56"(14.2mm) DUAL DIGIT DISPLAY PART NO. : LA(C)5642-S12 EWAK

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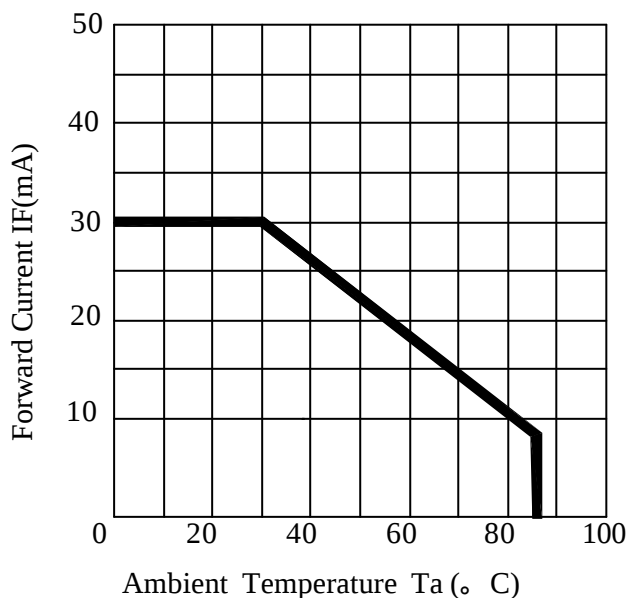
Typical Electrical/Optical Characteristic Curves
(25 °C Ambient Temperature Unless Otherwise Noted)



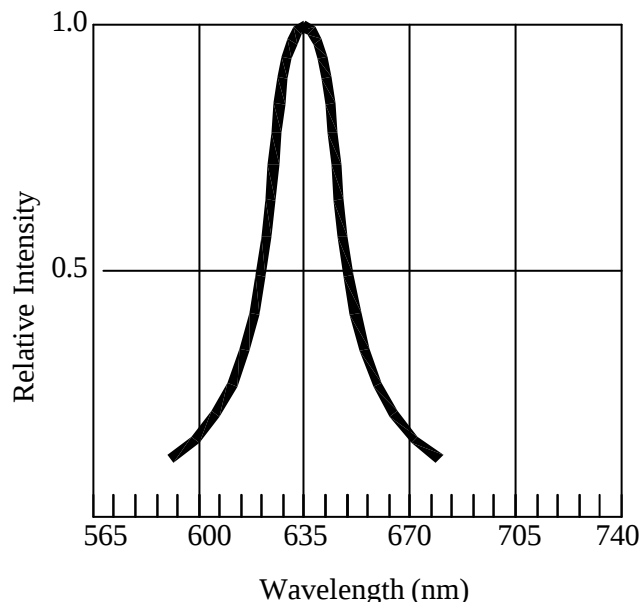
FORWARD CURRENT VS. APPLIED VOLTAGE



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH