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SPECIFICATION

PART NO. : LA(C)56B1-S2-M1 EWRS

0.56"(14.22mm) SINGLE DIGIT DISPLAY

Approved by	Checked by	Prepared by
王方波	王東宏	林小剛



**0.56"(14.22mm) SINGLE DIGIT DISPLAY
PART NO. : LA(C)56B1-S2-M1 EWRS**

Features

- * **0.56-INCH(14.22-mm) DIGIT HEIGHT.**
- * **LOW CURRENT REQUIREMENTS.**
- * **WIDE VIEWING ANGLE.**
- * **SOLIDE STATE RELIABILITY**
- * **LOW CURRENT REQUIREMENTS.**
- * **I.C. COMMPTIABLE.**
- * **CATEGORIZED FOR LUMINOUS INTENSITY.**

Description

The LA(C)56B1-S2-M1 EWRS is a 0.56-inch (14.22-mm) digit height single digit seven-segment display.

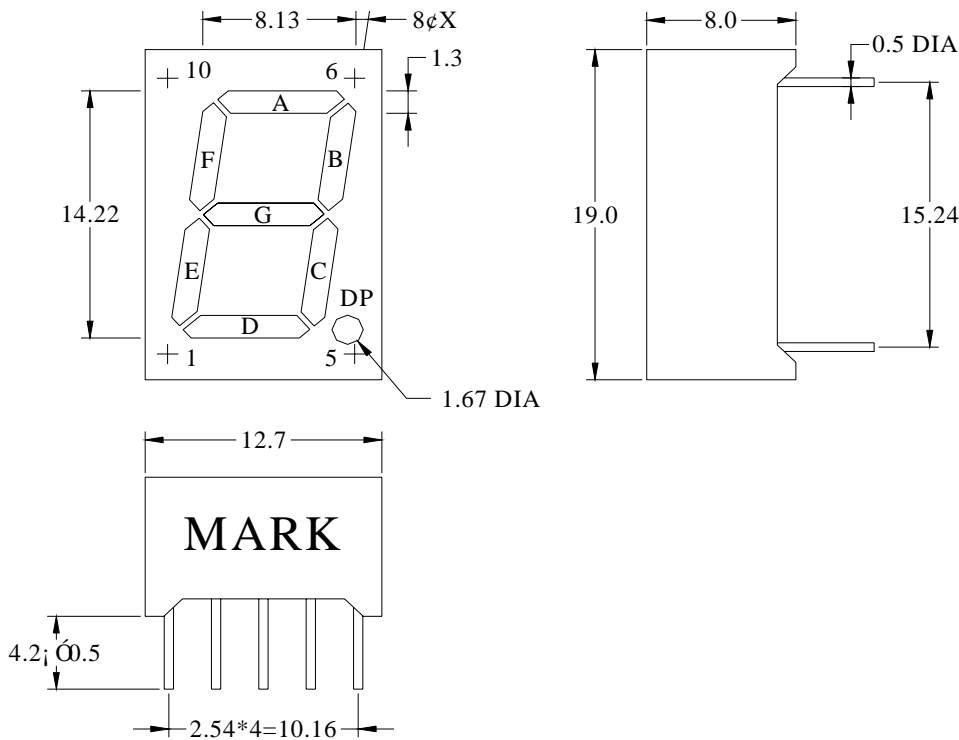
The Blue LED chips , which are made from GaN on a transparent SiC substrate.
The device has a grey face and white segments.

Part No.	Led Chip		Description
	Material	Emitting Color	
LA56B1-S2-M1 EWRS	GaN/SiC	BLUE	Common Anode
LC56B1-S2-M1 EWRS			Common Cathode



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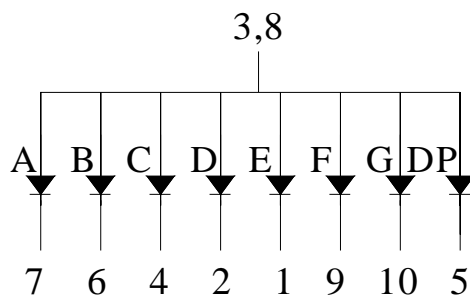
Package Dimensions



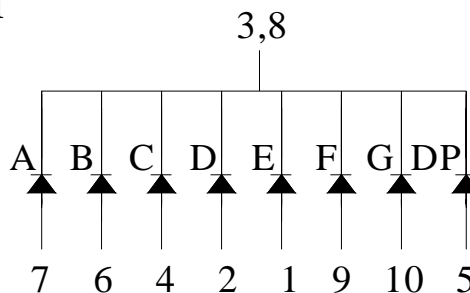
1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS ; $\phi 0.25$ mm UNLESS OTHERWISE NOTED.
2. THE SLOPE ANGLE OF ANY PIN MAY BE ; $\phi 5.0\phi$ XMAX.

Internal Circuit Diagram

LA56B1-S2-M1



LC56B1-S2-M1





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Pin Function

LA56B1-S2-M1		LC56B1-S2-M1	
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°C

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	°C
Storage Temperature Range	T _{stg}	-40 to +100	°C
Lead Soldering Temp.(1.6mm from seating plane) for 3 seconds		260	°C

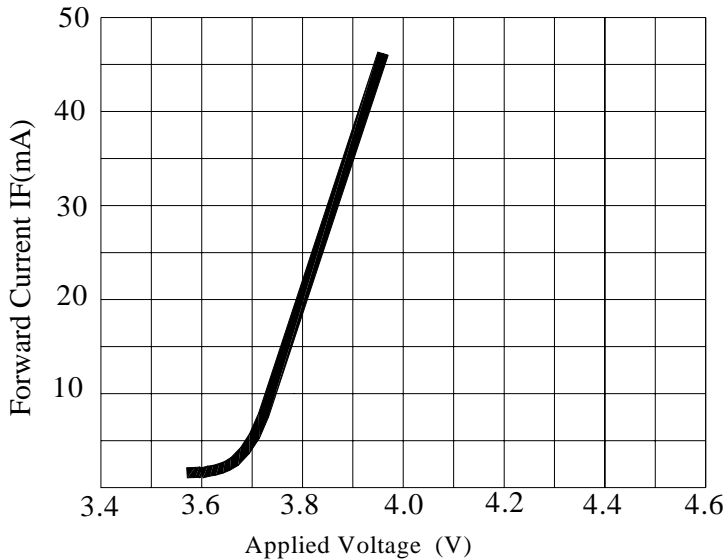
Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f =10mA	4.0	5.1		mcd
Forward Voltage Per Segment	V _f	I _f =20mA		3.8	4.5	V
Wavelength	λ P	I _f =20mA		428		nm
	λ D			466		
Reverse Current Per Segment	I _r	V _r =5V			100	μ A
Spectrum Line Halfwidth	Δ λ	I _f =20mA		65		nm

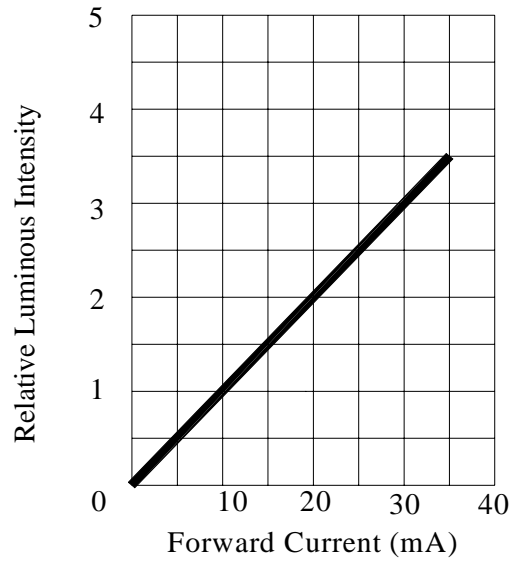


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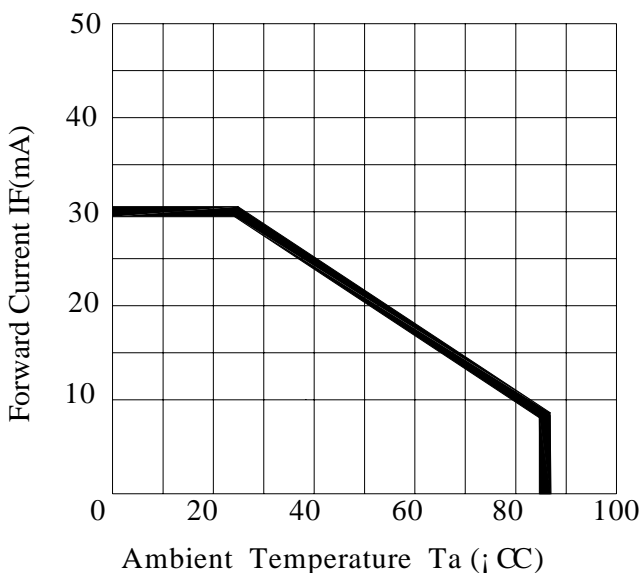
Typical Electrical/Optical Characteristic Curves
(25°C Ambient Temperature Unless Otherwise Noted)



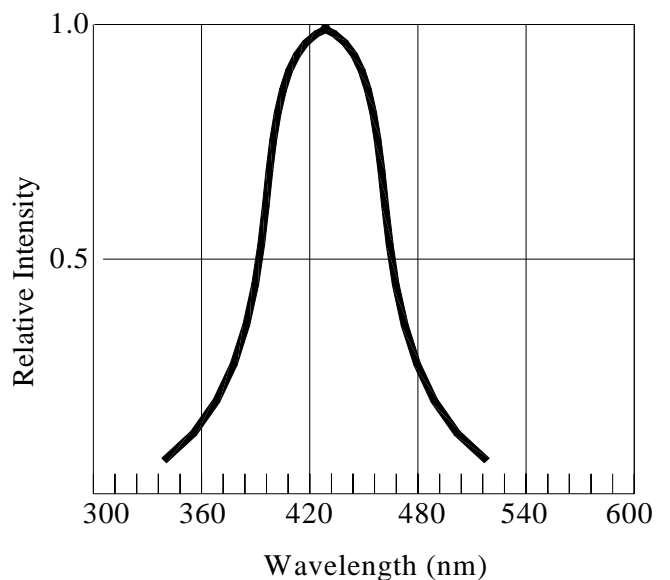
FORWARD CURRENT VS. APPLIED VOLTAGE



LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH