

# 规格(承认)书

## Specification for approval

※ 方舟 P/N (ARKLED P/N): SZ020757/SZ010757

※ 客户 P/N (CUSTOMER P/N): \_\_\_\_\_

※ 产品说明 (DESCRIPTION):

1. 0.7 inch (17.8mm) Dot Height
2. 5x7 LED Dot Matrix Display
3. Ultra Brightness Red-green

※ 日期 (DATE): 2012-5-23

地址: 江苏省宜兴市张渚镇金张渚工业区纬二路 2 号

**FACTORY ADD: NO.2 Wei er Road, ZHANGZHU TOWN, YIXING CITY, JIANGSU PROVINCE, P.R.CHINA**

**Ningbo Branch:**

电话 (TEL): **0086-574-86308393**

E-mial: **ark@arkled.net**

传真 (FAX): **0086-574-86308392**

网址(http) : **www.arkled.net**

0.7 Inch Dot Matrix Display  
Part No: SZ020757, SZ010757



## FEATURES

- High intensity and reliability
- High quality, Low power requirement and low cost
- IC compatible, Easy assembly
- Meet RoHS EU Directive

## DESCRIPTION

- The device of this 0.7 inch 5x7 dot matrix LED display is made of 4 elements (AlGaInP) material, designed for viewing distance up to 7 meters.
- It can be used in audio equipment, instruments, numeric read out display and so on.
- Standard appearance color is black or grey face and white dot.

## Selection Guide

Part No. CC <sup>[1]</sup>	Part No. CA <sup>[2]</sup>	Dice	Iv(mcd) <sup>[3]</sup> @20mA	
			Min.	Typ.
SZ020757	SZ010757	Ultra Bright Red (AlGaInP)	17	50
		Ultra Bright Green (AlGaInP)		

Note:

1. CC is Common Cathode.
2. CA is Common Anode.
3. Luminous intensity/ luminous Flux: +/-15%.

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**ABSOLUTE MAXIMUM RATINGS AT Ta=25°C**

PARAMETER	SYMBOL	ULTRA-BRIGHT RED	ULTRA-BRIGHT Green	UNIT
Power Dissipation Per Dot	PAD	100	100	mw
Reverse Voltage Per Dot	VR	5		V
Continuous Forward Current Per Dot	IAF	30		mA
Peak Forward Current Per Dot(Duty-0.1,1KHz)	IPF	200		mA
Operating Temperature Range	TOPr	-20°C to 80°C		
Storage Temperature Range	Tstg	-30°C to 85°C		
Lead Soldering Temperature 260°C at 1.6mm From Body for 3 second				

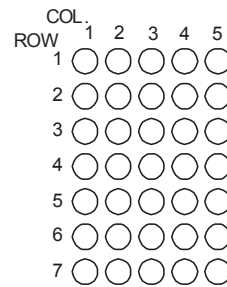
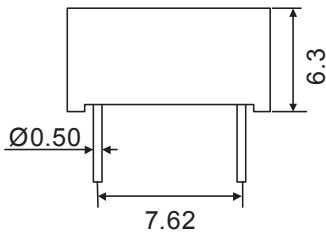
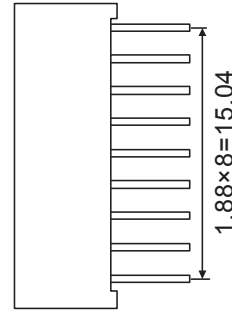
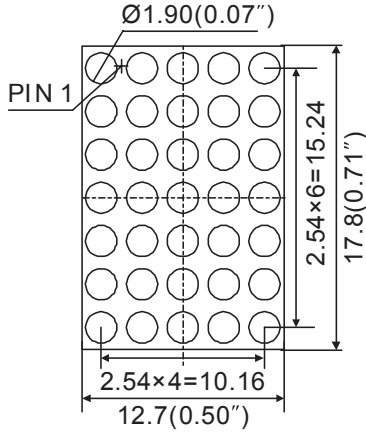
**ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C**

PARAMETER	SYMBOL	TEST CONDITION	Color	TYP.	MAX.	UNIT
Forward Voltage	VF	IF=20mA	ULTRA-BRIGHT RED	1.9	2.6	V
			ULTRA-BRIGHT Green	2.1	2.6	
Reverse Current	IR	VR=5V	ULTRA-BRIGHT RED		50	μA
			ULTRA-BRIGHT Green		50	
Peak Emission Wavelength	λp	IF=20mA	ULTRA-BRIGHT RED	640		nm
			ULTRA-BRIGHT Green	565		

0.7 Inch Dot Matrix Display  
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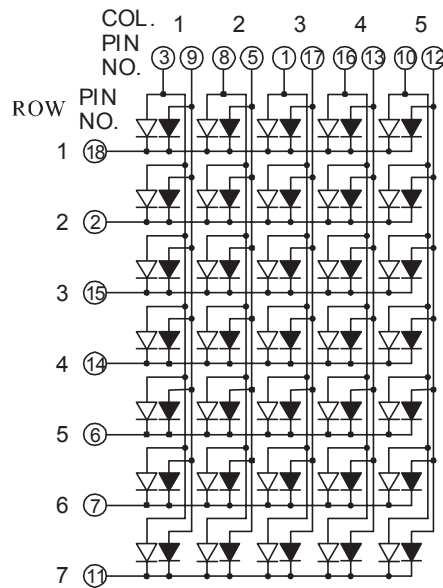
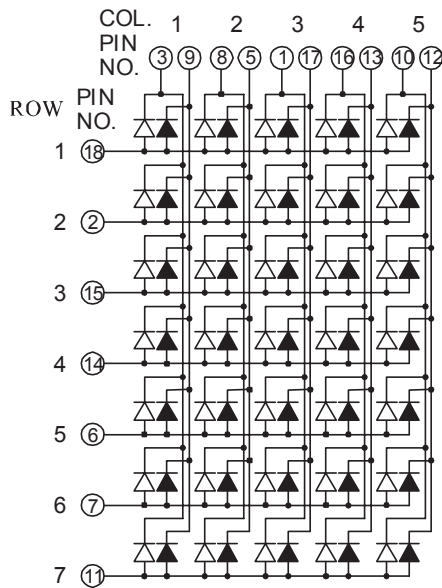


**Package Dimensions and Internal Circuit Diagram**



**SZ010757**

**SZ020757**



CODE N



CODE M

- NOTES: 1. all dimensions are in millimeters. (Inches)  
 2. Tolerance is  $\pm 0.25(0.010)$  unless otherwise specified.

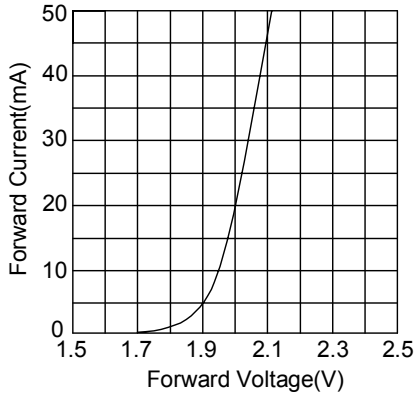
0.7 Inch Dot Matrix Display

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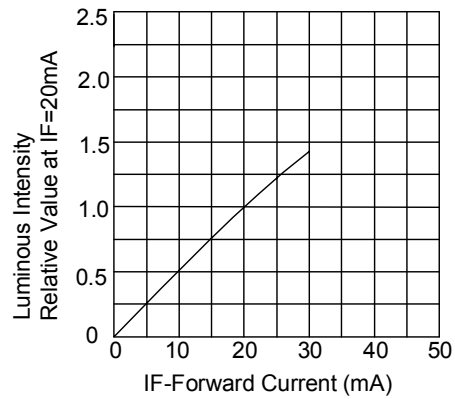


### Typical Electrical-Optical Characteristics Curves: Ultra Bright Red

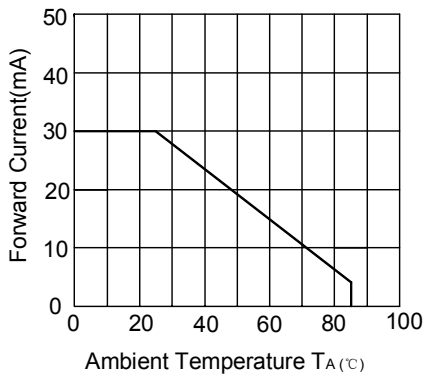
Forward Current Vs Forward Voltage



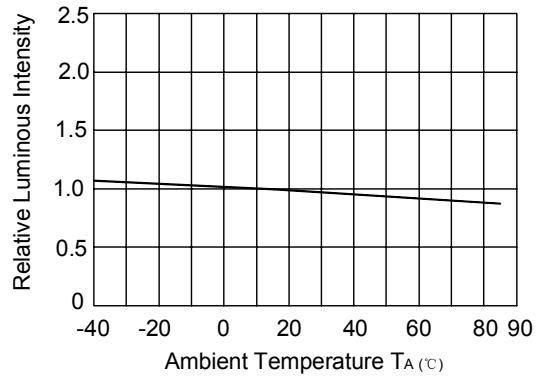
Relative Intensity Vs Forward Current



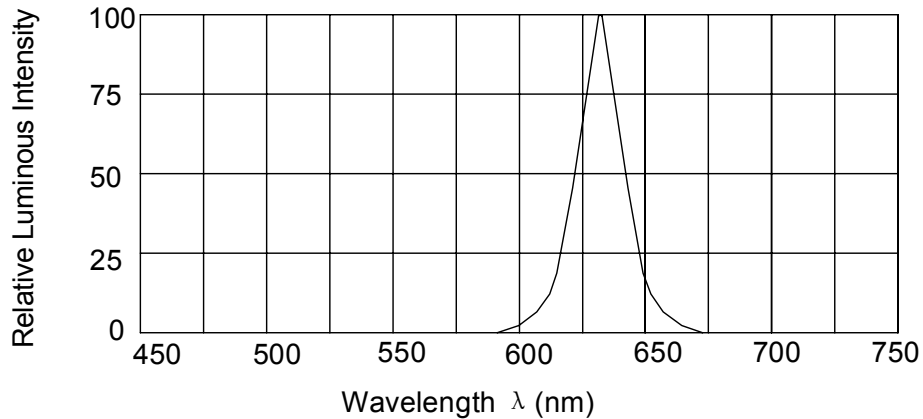
Forward Current Vs Environmental Temp



Relative Intensity Vs Environmental Temp



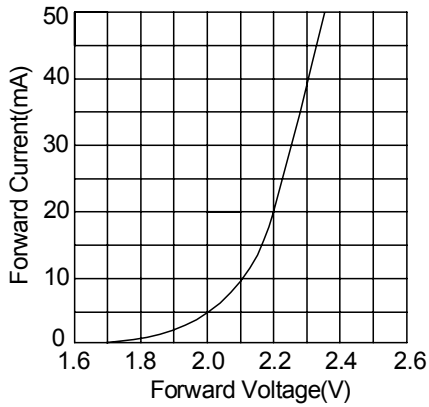
Relative Intensity Vs Wavelength



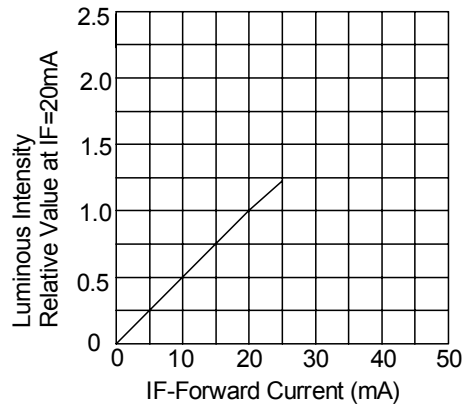


## Typical Electrical-Optical Characteristics Curves: Ultra Bright Green

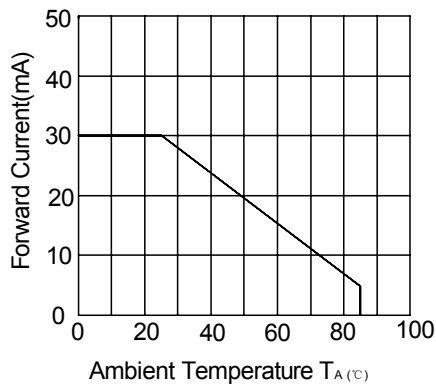
Forward Current Vs Forward Voltage



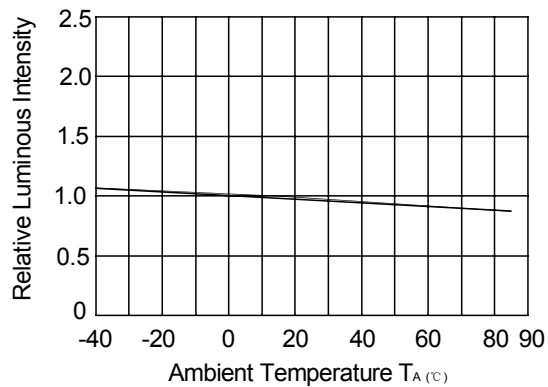
Relative Intensity Vs Forward Current



Forward Current Vs Environmental Temp



Relative Intensity Vs Environmental Temp



Relative Intensity Vs Wavelength

