

**ARKLED** 无锡市方舟科技电子有限公司  
WUXI ARK TECHNOLOGY ELECTRONIC CO., LTD

# 规格(承认)书

## Specification for approval

※ 方舟 P/N (ARKLED P/N): SZ320757/SZ310757

※ 客户 P/N (CUSTOMER P/N): \_\_\_\_\_

※ 产品说明 (DESCRIPTION):

1. 0.7 inch (17.8mm) Dot Height
2. 5x7 Dot Matrix Display
3. Ultra Brightness Orange

※ 日期 (DATE): 2012-5-25

地址: 江苏省宜兴市张渚镇金张渚工业区宇龙路6号

**FACTORY ADD: NO.6 Yulong Road, ZHANGZHU TOWN, YIXING CITY, JIANGSU PROVINCE, P.R.CHINA**

**Ningbo Branch:**

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网址(http) : **www.arkled.net**

0.7 Inch Dot Matrix Display  
Part No: SZ320757, SZ310757



## 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 LED dot matrix 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.
SZ320757	SZ310757	Ultra Bright Orange (AlGaInP)	17	50

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 Orange	UNIT
Power Dissipation Per Dot	PAD	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			

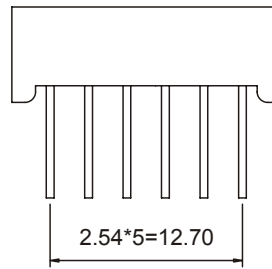
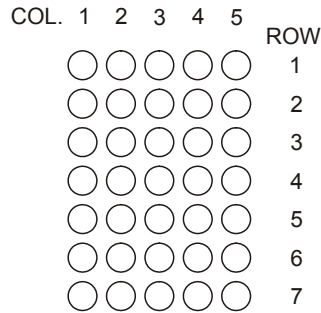
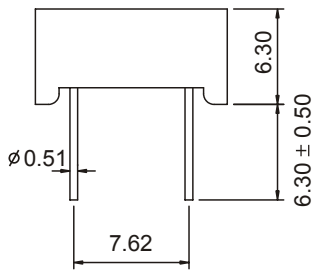
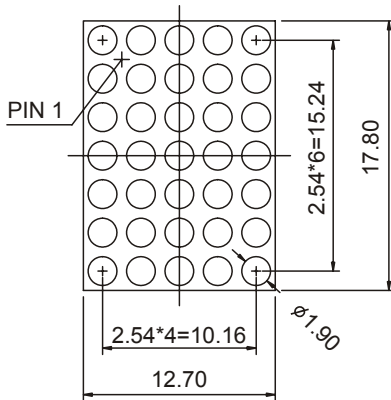
**ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C**

PARAMETER	SYMBOL	TEST CONDITION	Color	TYP	MAX	UNIT
Forward Voltage ,Per Dot	VF	IF=20mA	ULTRA-BRIGHT Orange	2.0	2.6	V
Reverse Current , Per Dot	IR	VR=5V	ULTRA-BRIGHT Orange		50	μA
Peak Emission Wavelength	λp	IF=20mA	ULTRA-BRIGHT Orange	625		nm

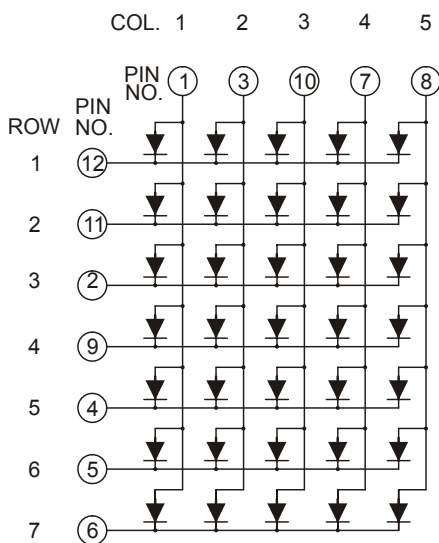
0.7 Inch Dot Matrix Display  
 Part No: SZ320757, SZ310757



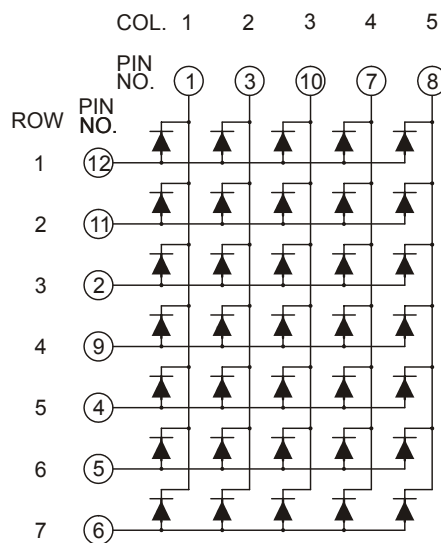
Package Dimensions and Internal Circuit Diagram



**SZ21257**



**SZ11257**

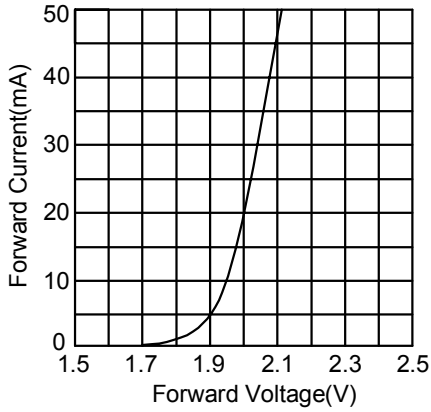


- NOTES: 1. all dimensions are in millimeters. (Inches)  
 2. Tolerance is  $\pm 0.25(0.010)$  unless otherwise specified.

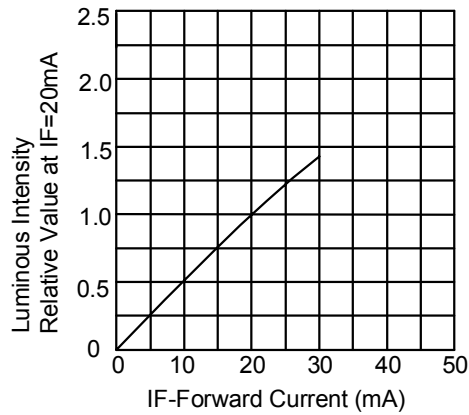


## Typical Electrical-Optical Characteristics Curves

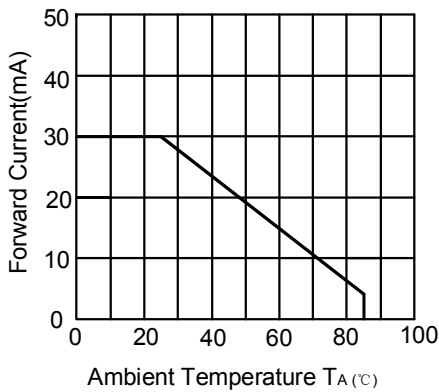
Forward Current Vs Forward Voltage



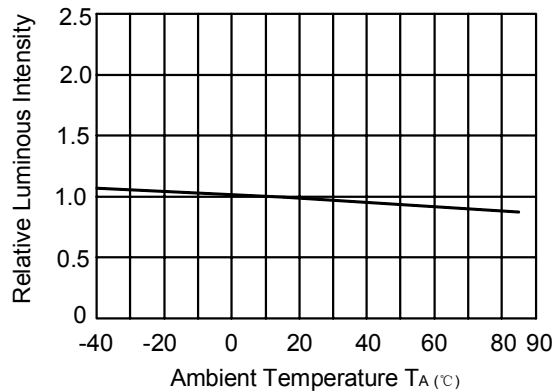
Relative Intensity Vs Forward Current



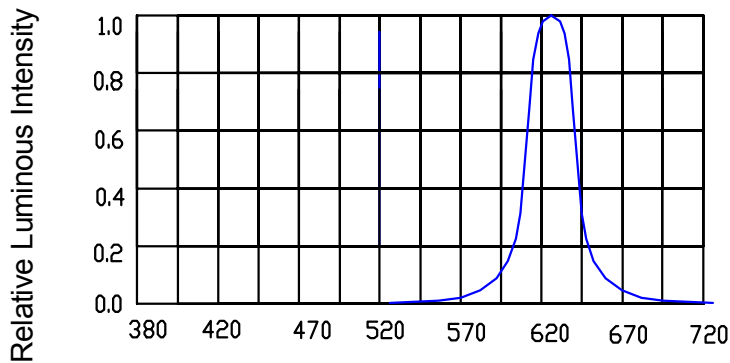
Forward Current Vs Environmental Temp



Relative Intensity Vs Environmental Temp



Relative Intensity Vs Wavelength



Wavelength  $\lambda$  (nm)/波长