

规格(承认)书

Specification for approval

※ 方舟 P/N (ARKLED P/N): SB401010

※ 客户 P/N (CUSTOMER P/N): _____

※ 产品说明 (DESCRIPTION):

1. 1 inch (25.4mm) Bar Height
2. 10 Segment LED Light Bar Display
3. Ultra Brightness Red

※ 日期 (DATE): 2012-4-26

地址: 江苏省宜兴市张渚镇金张渚工业区宇龙路6号

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Ningbo Branch:

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10 Segment LED Light Bar

Part No: SB401010



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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 10 segment light bar is made of 4 elements (AlGaInP) material, designed for viewing distance up to 7 meters.
- It can be used in audio equipment, instruments and so on.
- Standard appearance color is black or grey face and white segment.

Selection Guide

Part No.	Dice	Iv(mcd) ^[1] @20mA	
		Min.	Typ.
SB401010	Ultra Bright Red (AlGaInP)	17	50

Note:

1. Luminous intensity/ luminous Flux: +/-15%.

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

PARAMETER	SYMBOL	ULTRA-BRIGHT RED	UNIT
Power Dissipation Per Segment	PAD	100	mw
Reverse Voltage Per Segment	VR	5	V
Continuous Forward Current Per Segment	IAF	30	mA
Peak Forward Current Per Segment(Duty-0.1,1KHz)	IPF	200	mA
Operating Temperature Range	TOPr	-20℃ to 80℃	
Storage Temperature Range	Tstg	-30℃ to 85℃	
Lead Soldering Temperature 260℃ 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 Segment	VF	IF=20mA	ULTRA-BRIGHT RED	1.9	2.6	V
Reverse Current , Per Segment	IR	VR=5V	ULTRA-BRIGHT RED		50	μA
Peak Emission Wavelength	λp	IF=20mA	ULTRA-BRIGHT RED	640		nm

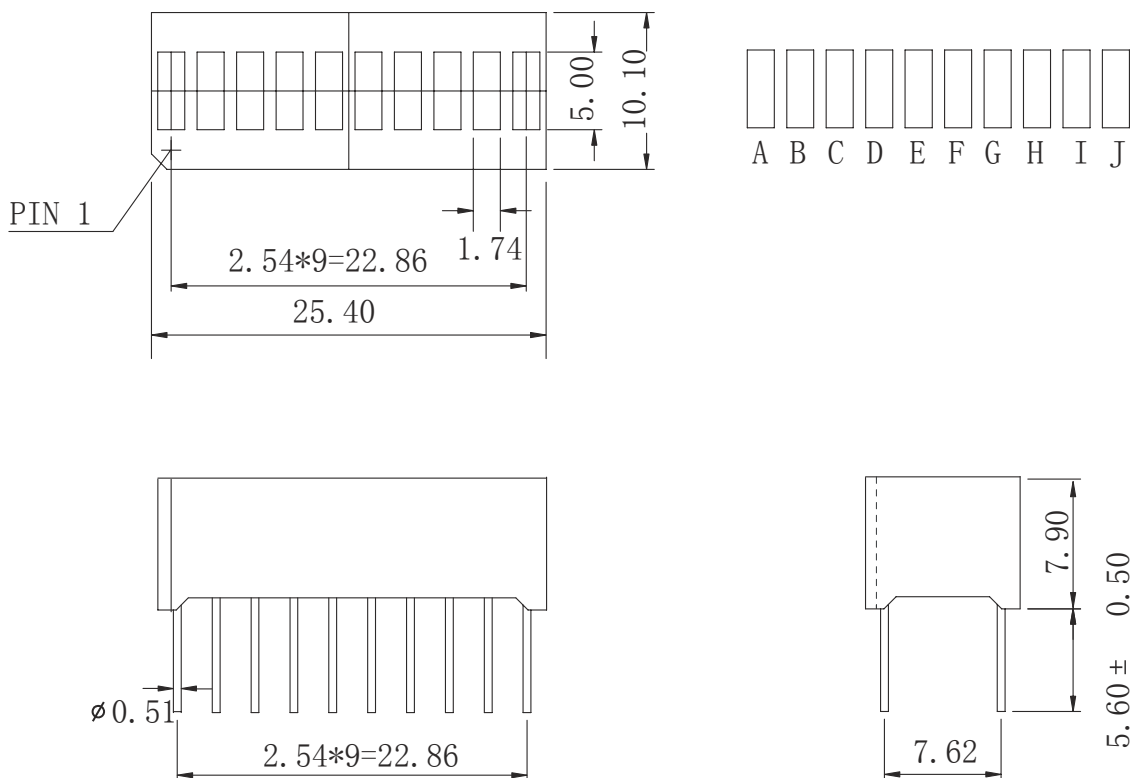
10 Segment LED Light Bar

Part No: SB401010

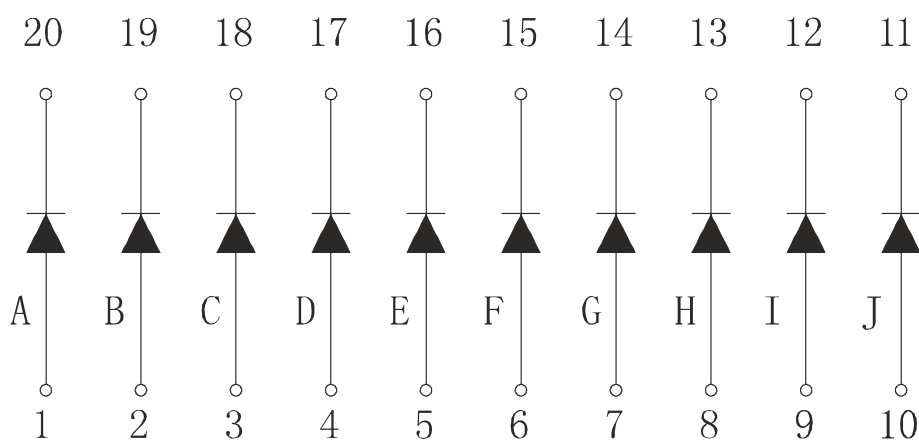


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Package Dimensions and Internal Circuit Diagram



SB01010

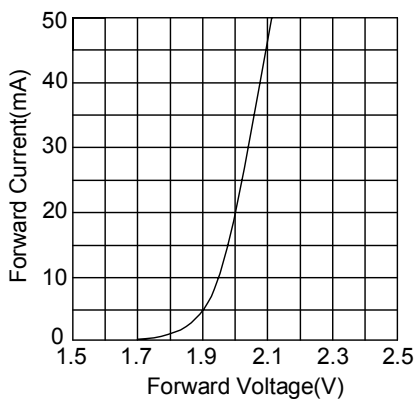


NOTES: 1. all dimensions are in millimeters. (Inches)

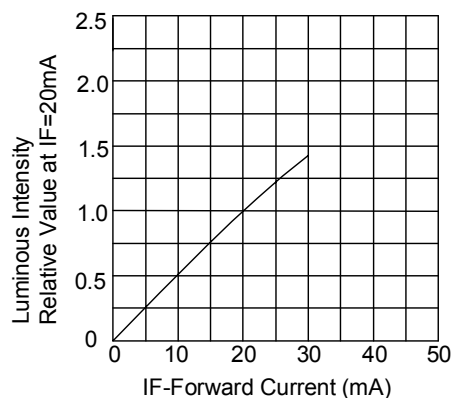
2. Tolerance is $\pm 0.25(0.010)$ unless otherwise specified.

Typical Electrical-Optical Characteristics Curves

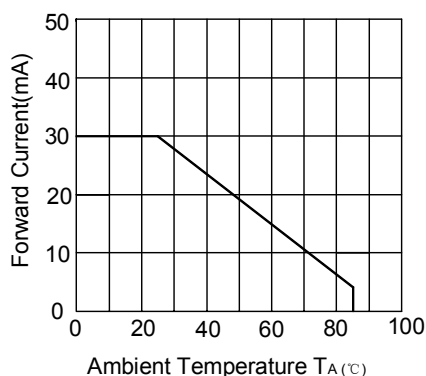
Forward Current Vs Forward Voltage



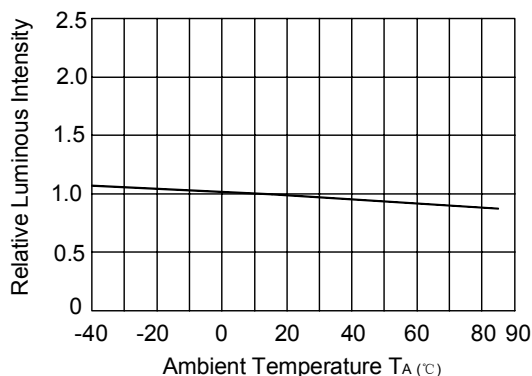
Relative Intensity Vs Forward Current



Forward Current Vs Environmental Temp



Relative Intensity Vs Environmental Temp



Relative Intensity Vs Wavelength

