

# Technical data sheet

## 3.0mm Round Type Arrayed LEDs

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**A1394B/3H**

### ◆ Features

- Low power consumption
- High efficiency and free combinations  
on the colors of LED lamps
- Good lock and easy to assembly
- Stackable and easy to assembly  
Stackable vertically and easy to assembly
- Versatile mounting on P.C board or panel
- Stackable horizontally and easy to assembly
- Pb free
- The product itself will remain within RoHS compliant version

### ◆ Descriptions

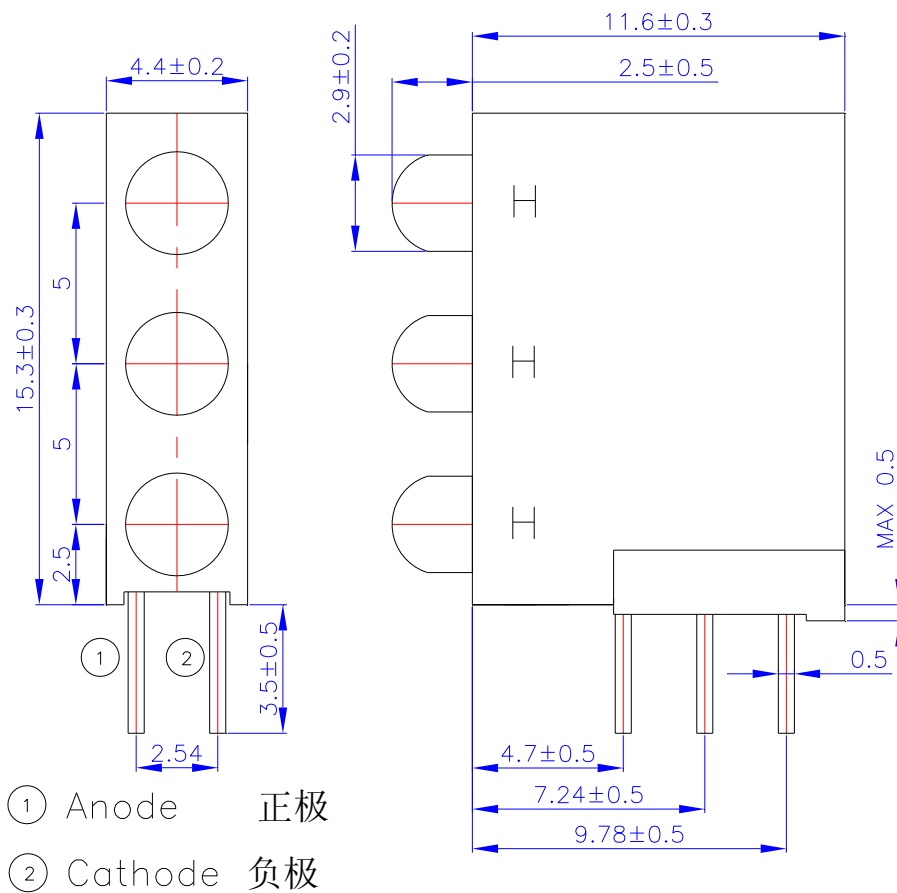
- ARRAY=Plastic Holder+Combinations of lamps
- The array will easily mount the applicable lamps on any panel up to

### ◆ Applications

- Used as indicators of indicating the degree, Functions, Positions etc, in electronic instruments

LED PART NO.	Chip		Lens Color
	Material	Emitted Color	
A1394B/3H	GaP	Red	Color Diffused

◆ Package Dimensions:



备注: 1. 所有尺寸均以毫米为单位  
2. 所有未标示的公差尺寸, 均以±0.2毫米为公差

◆ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	20	mA
Operating Temperature	Topr	-40to+85	°C
Storage Temperature	Tstg	-40to+100	°C
Soldering Temperature*1	Tsol	260±5	°C
Power Dissipation	Pd	48	mW
Reverse Voltage	VR	5	V
Peak Forward Current*2	IFp	0.15	A

\*1: Soldering time ≅ 5 seconds. \*2: Pulse Width ≅ 100 μs and Duty ≅ 1%.

◆ Electro-Optical Characteristics at Ta=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
正向电流	VF	IF=20 mA	/	2.0	2.4	V
反向[反转]电流	IR	VR= 5 V	/	/	10	μA
发光强度	IV	IF=20 mA	0.2	/	/	mcd
可视角度	2θ1/2	IF=20 mA	/	55	/	deg
波长最大值	λp	IF=20 mA	/	700	/	nm
主波长	λd	IF=20 mA	/	640	/	nm
光谱半波宽	Δλ	IF=20 mA	/	25	/	nm

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### ◆ Reliability test items and conditions:

The reliability of products shall be satisfied with items listed below.

Confidence level: 97%

LTPD:3%

No	Item	Test Conditions	Test Hours/Cycle	Sample Size	Failure Judgment Criteria	Ac/Er
1	Solder Heat	TEMP:260°C±5°C	10 SEC	76 PCS	$I_v \cong I_{vt} * 0.5$ or $V_f \cong U$ or $V_f \cong L$	0/1
2	Temperature Cycle	H:+100°C 15min ┆ 5min L:-40°C 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H:+100°C 5min ┆ 10sec L:-10°C 5min	300 CYCLES	76 PCS		0/1
4	High Temperature Storage	TEMP:100°C	1000 HRS	76 PCS		0/1
5	Low Temperature Storage	TEMP:-40°C	1000 HRS	76 PCS		0/1
6	DC Operating Life	TEMP:25°C IF=20mA	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85°C/85%RH	1000 HRS	76 PCS		0/1

Note: Ivt: To test I<sub>v</sub> value of the chip before the reliability test

I<sub>v</sub>: The test value of the chip that has completed the reliability test

U: Upper Specification Limit

L: Lower Specification Limit

◆ **Packing Quantity Specification**

250PCS/袋, 4 袋/彩盒, 10 彩盒/箱

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