



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





LIGHTING FOREVER

# Technical Data Sheet

## 3.0mm Round Type LED Lamps

### 1254-10SDRD/S530-A3/T2-L

#### Features :

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust
- Pb free
- The product itself will remain within RoHS compliant version.



#### Descriptions :

- The series is specially designed for applications requiring higher brightness
- The led lamps are available with different colors, intensities.

#### Applications :

- TV set
- Monitor
- Telephone
- Computer

PART NO.	Material	Emitted Color	Lens Color
1254-10SDRD/S530-A3/T2-L	AlGaInP	Deep-Red	Red Diffused



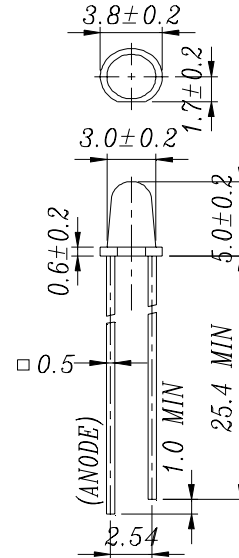
LIGHTING FOREVER

Technical Data Sheet

3.0mm Round Type LED Lamps

1254-10SDRD/S530-A3/T2-L

Package Dimensions



- Notes: 1. All dimensions are in millimetres  
 2. The height of flange must be less than 1.5mm(0.059").  
 3. Without special declared, the tolerance is  $\pm 0.25$ mm.

■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current	IF(Peak)	60	mA
Reverse Voltage	VR	5	V

Note: \*1: Soldering time  $\leq$  5 seconds.



LIGHTING FOREVER

# Technical Data Sheet

## 3.0mm Round Type LED Lamps

1254-10SDRD/S530-A3/T2-L

### Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 2 mA	/	2.0	2.4	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5 V	/	/	10	μA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 2 mA	6.3	12.5	/	mcd
Viewing Angle	2θ 1/2	I <sub>F</sub> = 2 mA	/	30	/	deg
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 2 mA	/	650	/	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> = 2 mA	/	639	/	nm
Spectrum Radiation Bandwidth	Δλ	I <sub>F</sub> = 20 mA	/	20	/	nm

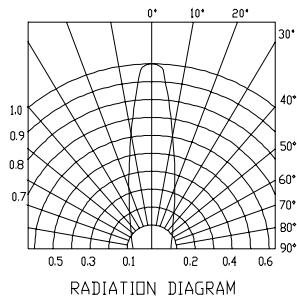
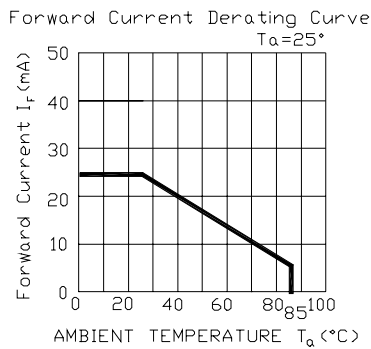
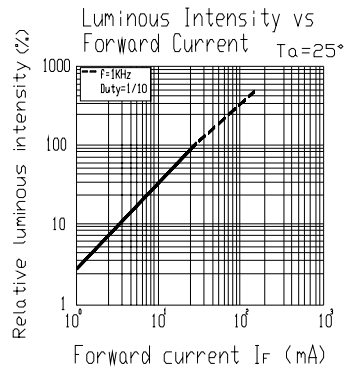
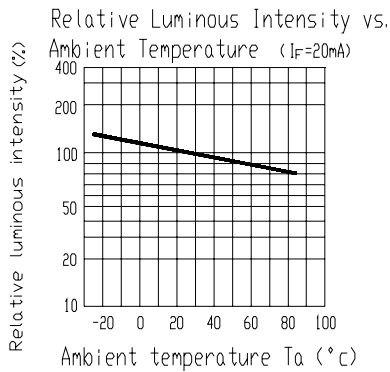
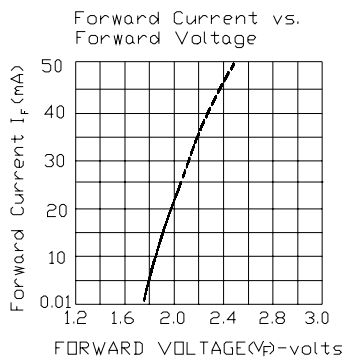
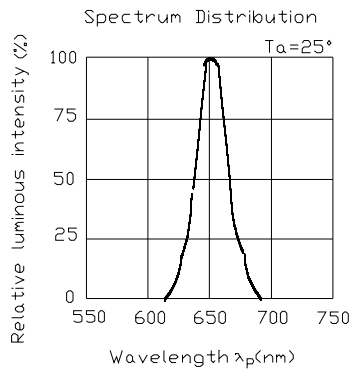
# Technical Data Sheet

## 3.0mm Round Type LED Lamps

1254-10SDRD/S530-A3/T2-L

### Typical Electro-Optical Characteristic Curves:

( SDR )





LIGHTING FOREVER

# Technical Data Sheet

## 3.0mm Round Type LED Lamps

1254-10SDRD/S530-A3/T2-L

### ■ 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/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC	76 PCS	$I_v \leq I_{vt} * 0.5$ or $V_f \geq U$ or $V_f \leq L$	0/1
2	Temperature Cycle	H : +100°C 15min $\int$ 5 min L : -40°C 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H : +100°C 5min $\int$ 10 sec 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 $I_F = 20mA$	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85°C / 85% RH	1000 HRS	76 PCS		0/1

Note :  $I_{vt}$  : To test  $I_v$  value of the chip before the reliability test

$I_v$  : The test value of the chip that has completed the reliability test

U : Upper Specification Limit

L : Lower Specification Limit



LIGHTING FOREVER

## Technical Data Sheet

### 3.0mm Round Type LED Lamps

1254-10SDRD/S530-A3/T2-L

#### Packing Quantity Specification

1.1000PCS/1Bag · 4Bags/1Box

2.10Boxes/1Carton

#### Label Form Specification



CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Dominant Wavelength

REF: Reference

LOT No: Lot Number

#### Notes

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.

EVERLIGHT ELECTRONICS CO., LTD.

Tel: 886-2-2267-2000, 2267-9936

Office: No 25, Lane 76, Sec 3, Chung Yang Rd,

Fax: 886-2267-6244, 2267-6189, 2267-6306

Tucheng, Taipei 236, Taiwan, R.O.C

<http://www.everlight.com>