imall

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.

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Technical Data Sheet 2.0*5.0mm Rectangle Type LED Lamps

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
514SDRD/S530-A3	AlGaInP	Deep-Red	Red Diffused

EVERLIGHT ELECTRONICS CO.,LTD.

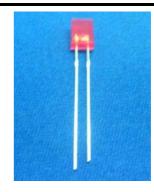
Device Number: CDLE-051-200

http://www.everlight.com Prepared date: 2006/2/21

BG0602096

Rev.: 1 Prepared by: Page: 1 of 6 Xiuzen Feng

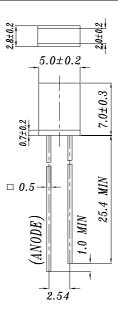
514SDRD/S530-A3



Technical Data Sheet 2.0*5.0mm Rectangle Type LED Lamps

Package Dimensions

514SDRD/S530-A3



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±0.25mm.

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

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

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

http://www.everlight.com Prepared date: 2006/2/21 Rev.: 1

Technical Data Sheet 2.0*5.0mm Rectangle Type LED Lamps

514SDRD/S530-A3

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	I_F = 20 mA	/	2.0	2.4	V
Reverse Current	IR	V _R = 5 V	/	/	10	μA
Luminous Intensity	Iv	I_F = 20 mA	4	8	/	mcd
Viewing Angle	2 <i>0</i> 1/2	I_F = 20 mA	/	120	/	deg
Peak Wavelength	λp	I_F = 20 mA	/	650	/	nm
Dominant Wavelength	λd	I_F = 20 mA	/	639	/	nm
Spectrum Radiation Bandwidth	$ riangle \lambda$	I_F = 20 mA	/	20	/	nm

EVERLIGHT ELECTRONICS CO., LTD. Device Number: CDLE-051-200

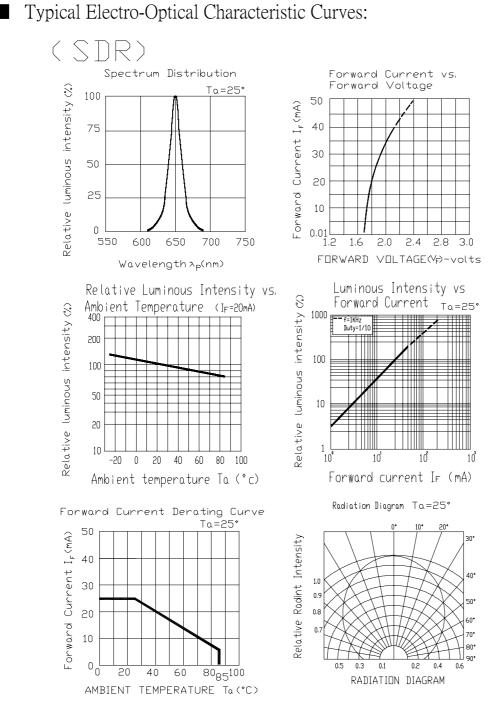
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Technical Data Sheet 2.0*5.0mm Rectangle Type LED Lamps

514SDRD/S530-A3



EVERLIGHT ELECTRONICS CO.,LTD. Device Number : CDLE-051-200 http://www.everlight.com Prepared date: 2006/2/21 Rev.: 1 Prepared by:

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Technical Data Sheet 2.0*5.0mm Rectangle Type LED Lamps

514SDRD/S530-A3

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 ℃	10 SEC	76 PCS	-	0/1
2	Temperature Cycle	H:+100°C 15min ∫ 5 min L:-40°C 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	300 CYCLES	76 PCS		0/1
4	High Temperature Storage	TEMP: 100°C	1000 HRS	76 PCS	$Iv \le Ivt*0.5$ or $Vf \ge U$ or $Vf \le L$	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℃ / 85% RH	1000 HRS	76 PCS		0/1

Note : Ivt : To test Iv value of the chip before the reliablility test

Iv : The test value of the chip that has completed the reliablility test

U: Upper Specification Limit

L: Lower Specification Limit

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Technical Data Sheet 2.0*5.0mm Rectangle Type LED Lamps

514SDRD/S530-A3

Packing Quantity Specification

1. 500PCS/1Bag , 5Bags/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 corporatio

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EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-051-200

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