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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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



Technical Data Sheet 2.0*5.0mm Rectangular Type LED Lamps

Features :

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust
- Pb free

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
743SURD/S530-A3	AlGaInP	Hyper Red	Red Diffused

EVERLIGHT ELECTRONICS CO.,LTD.http://www.everlight.comRev.: 1Page: 1 of 6Device Number :CDLE-074-019Prepared date: 2005/6/30Prepared by:Jin Mei Feng

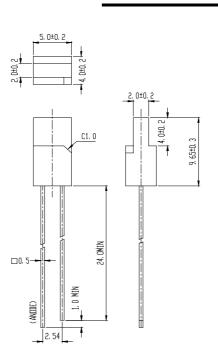
BG0506177,R0502820

743SURD/S530-A3



Technical Data Sheet 2.0*5.0mm Rectangular Type LED Lamps

Package Dimensions



743SURD/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 ± 0.25 mm.

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

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
Reverse Voltage	Vr	5	V

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

Technical Data Sheet 2.0*5.0mm Rectangular Type LED Lamps

743SURD/S530-A3

Electro-Optical Characteristics (Ta=25°C)

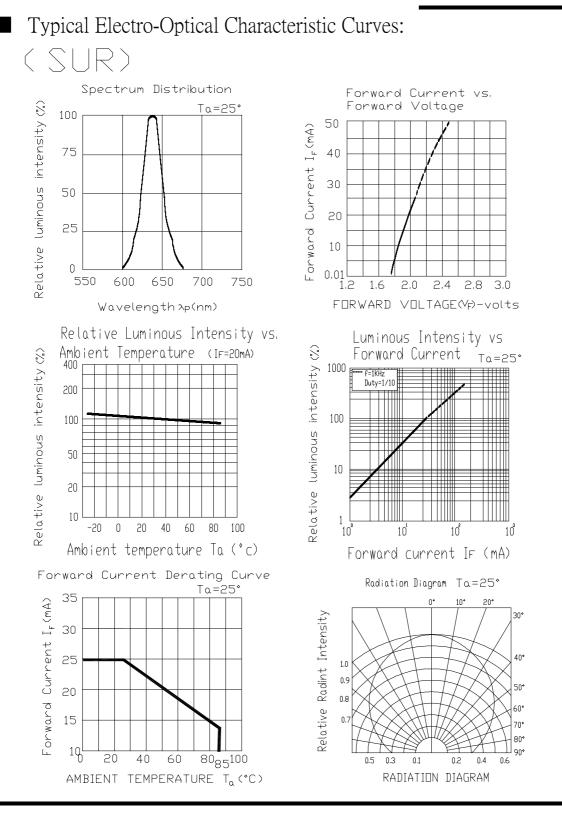
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	VF	I _F = 20 mA	/	2.0	2.4	V
Reverse Current	IR	$V_R = 5 V$	/	/	10	μ A
Luminous Intensity	Iv	I _F = 20 mA	16	25	/	mcd
Viewing Angle	2 <i>θ</i> 1/2	I _F = 20 mA	/	130	/	deg
Peak Wavelength	λp	I _F = 20 mA	/	632	/	nm
Dominant Wavelength	λd	I _F = 20 mA	/	624	/	nm
Spectrum Radiation Bandwidth	$ riangle \lambda$	I _F = 20 mA	/	20	/	nm

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Technical Data Sheet

2.0*5.0mm Rectangular Type LED Lamps

743SURD/S530-A3



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Prepared by:		Jin Mei Feng		

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Technical Data Sheet

2.0*5.0mm Rectangular Type LED Lamps

743SURD/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 °C	10 SEC	76 PCS		0/1
2	Temperature Cycle	H : +100℃ 15min ∫ 5 min L : -40℃ 15min	300 CYCLES	76 PCS	Iv \leq Ivt*0.5 or Vf \geq U or Vf \leq L	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		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 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 Rectangular Type LED Lamps

Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification



CPN: Customer's Production Number QTY: Packing Quantity CAT: Ranks HUE: Dominant Wavelength REF: Reference LOT No: Lot Number MADE IN TAIWAN: Production Place

MADE IN TAIWAN

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

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 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

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