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.

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!



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Technical Data Sheet 3.0mm Round Type LED Lamps

Features :

- Choice of various viewing angles
- Available on tape and reel.
- \bullet 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

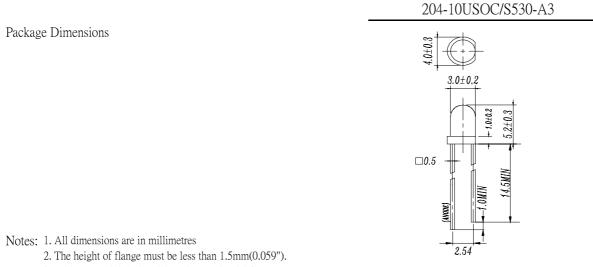
PART NO.	Material	Emitted Color	Lens Color
204-10USOC/S530-A3	AlGaInP	Reddish Orange	Water Clear

EVERLIGHT ELECT	RONICS CO.,LTD.	http://www.everlight.com	Rev.: 5	Page: 1 of 6	
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Technical Data Sheet 3.0mm Round Type LED Lamps



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
Electrostatic Discharge	ESD	2000	V
Soldering Temperature	Tsol	260 ± 5	$^{\circ}$ C
Power Dissipation	Pd	60	mW
Reverse Voltage	VR	5	V

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

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Technical Data Sheet 3.0mm Round Type LED Lamps

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Condition Parameter Min. Max. Unit Symbol Typ. Forward Voltage VF V I_F= 20 / 2.0 2.4 mА Reverse Current V IR V_R= 5 / / 10 μΑ Luminous Intensity Iv $I_F =$ 20 160 320 / mА mcd Viewing Angle $2\theta 1/2$ / 20 / I_F= 20 mА deg Peak Wavelength λp $I_F =$ 20 mА / 621 / nm Dominant Wavelength / 615 / λd $I_F =$ 20 mА nm Spectrum Radiation $\Delta \lambda$ I_F= 20 mА / 18 / nm Bandwidth

Electro-Optical Characteristics (Ta=25°C)

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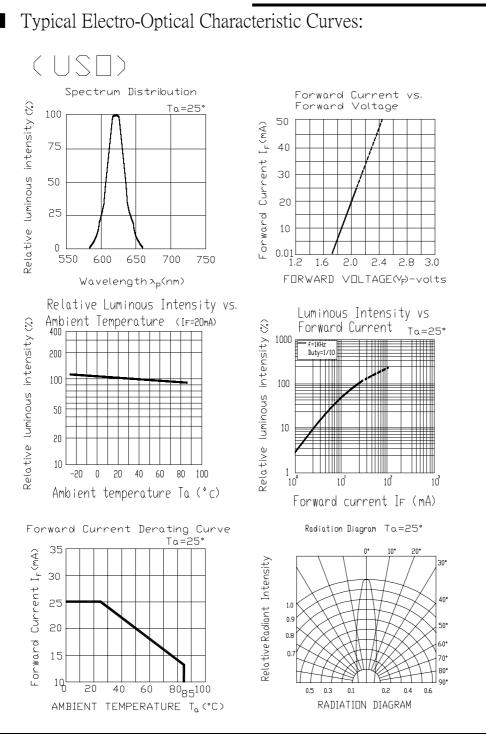
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Technical Data Sheet 3.0mm Round Type LED Lamps

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Technical Data Sheet 3.0mm Round Type LED Lamps

204-10USOC/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°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	$Vf \ge Vt*0.5$ 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

 $\operatorname{Iv}\,$: 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 3.0mm Round Type LED Lamps

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 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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