



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

PART NO. : 264-7SURC/S530-A3

DATE : 2005/8/8

DEPARTMENT : CHR&D1

REVISION : 5

RECEIVED			
☒ MASS PRODUCTION			
☐ PRELIMINARY			
☐ CUSTOMER DESIGN			
DEVICE NUMBER : CDLE-026-074			
PAGE : 6			
CUSTOMER	DESIGNER	CHECKER	APPROVER

4	Revision update	2005/2/28
REV.	DESCRIPTION	RELEASE DATE

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Technical Data Sheet

3.0mm Round Type LED Lamps

264-7SURC/S530-A3

■ 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.



125 200

■ 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

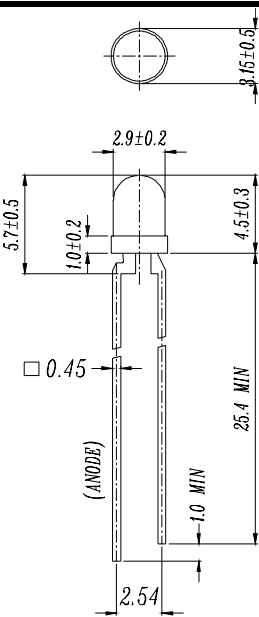
PART NO.	Material	Emitted Color	Lens Color
264-7SURC/S530-A3	AlGaInP	Hyper Red	Water Clear

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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 ± 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 $\pm$ 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	100	mW
Peak Forward Current	IF(Peak)	60	mA
Reverse Voltage	VR	5	V

Note: *1:IFP Conditions --Pulse Width $\leq$ 1msec and Duty $\leq$ 1/10.

*2:Soldering time $\leq$ 5 seconds.



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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	μ A
Luminous Intensity	I _v	I _F = 20 mA	125	200	/	mcd
Viewing Angle	2 θ 1/2	I _F = 20 mA	/	40	/	deg
Peak Wavelength	λ p	I _F = 20 mA	/	632	/	nm
Dominant Wavelength	λ d	I _F = 20 mA	/	624	/	nm
Spectrum Radiation Bandwidth	△ λ	I _F = 20 mA	/	20	/	nm



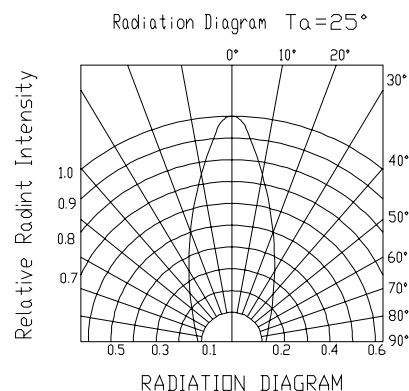
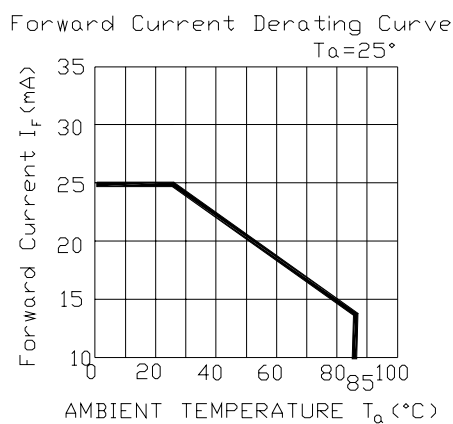
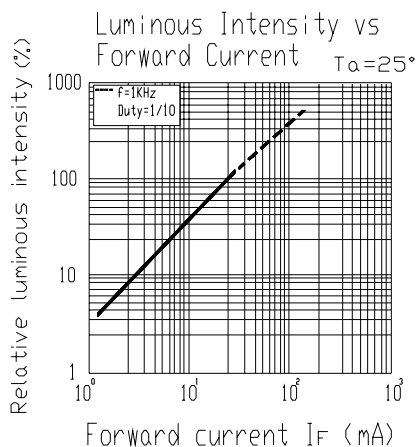
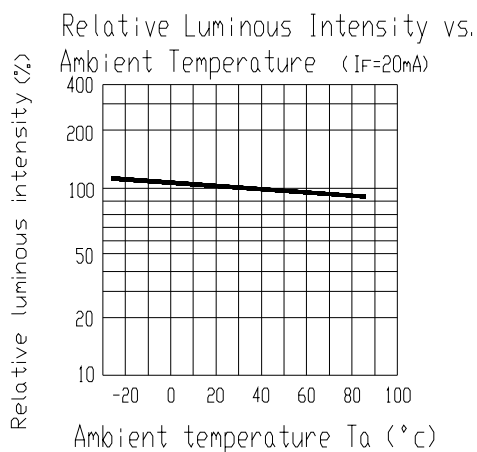
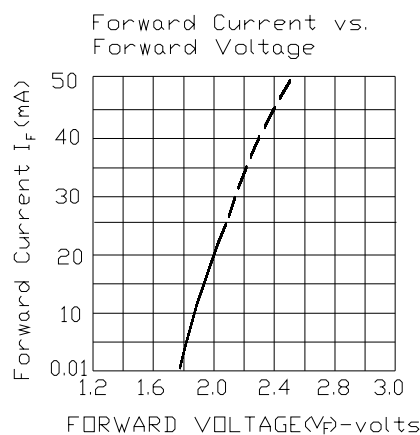
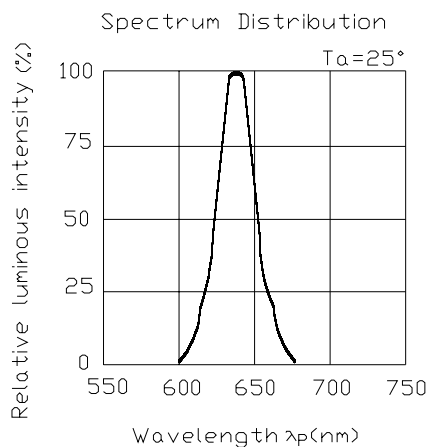
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Typical Electro-Optical Characteristic Curves:

(SUR)





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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/Re
1	Solder Heat	TEMP : 260°C ± 5 °C 125	200	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 § 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		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} : The 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



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Packing Quantity Specification

- 1.1000PCS/1Bag · 4Bags/1Box
- 2.10Boxes/1Carton

Label Form Specification



CPN: Customer's Production Number
125 200
QTY: Packing Quantity
CAT: Ranks
HUE: Peak Wavelength
REF: Reference
LOT No: Lot Number
MADE IN TAIWAN: Production Place

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.
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