

#### 1254-10SURT/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.

### 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
1254-10SURT/S530-A3	AlGaInP	Hyper Red	Red Trans

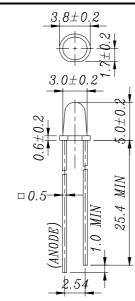
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#### Package Dimensions

## 1254-10SURT/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  $\pm 0.25$ mm.

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

Parameter	Symbol	Rating	Unit
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 to +85	$^{\circ}\!\mathbb{C}$
Storage Temperature	Tstg	-40 to +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature	Tsol	$260 \pm 5$	$^{\circ}\!\mathbb{C}$
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Reverse Voltage	VR	5	V

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

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

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	VF	I <sub>F</sub> = 20 mA	/	2.0	2.4	V
Reverse Current	IR	$V_R = 5 V$	/	/	10	μΑ
Luminous Intensity	Iv	I <sub>F</sub> = 20 mA	160	320	/	mcd
Viewing Angle	2 θ 1/2	I <sub>F</sub> = 20 mA	/	30	/	deg
Peak Wavelength	λp	I <sub>F</sub> = 20 mA	/	632	/	nm
Dominant Wavelength	λd	I <sub>F</sub> = 20 mA	/	624	/	nm
Spectrum Radiation Bandwidth	Δλ	$I_F$ = 20 mA	/	20	/	nm

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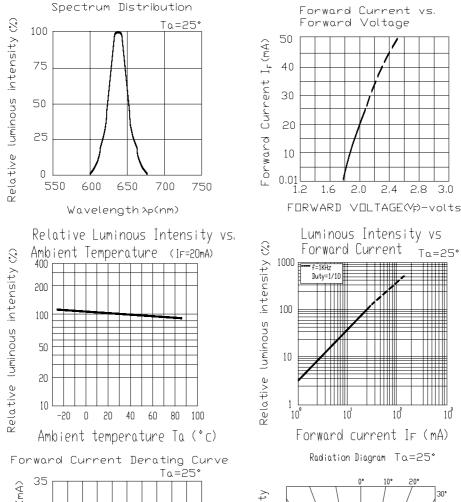
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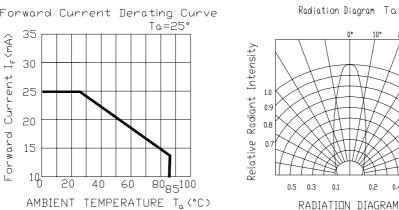


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## ■ Typical Electro-Optical Characteristic Curves:







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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 : $260^{\circ}$ C ± 5 $^{\circ}$ C	10 SEC	76 PCS		0/1
2	Temperature Cycle	$H: +100^{\circ}C$ 15min $\int$ 5 min $L: -40^{\circ}C$ 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	$H: +100^{\circ}C$ 5min $\int 10 \sec L: -10^{\circ}C$ 5min	300 CYCLES	76 PCS	$Iv \leq Ivt*0.5$	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	or Vf≧U or	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	Vf≦L	0/1
6	DC Operating Life	TEMP: $25^{\circ}$ C IF = $20$ mA	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 LimitL: Lower Specification Limit

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#### 1254-10SURT/S530-A3

Packing Quantity Specification

1.1000PCS/1Bag, 4Bags/1Box

2.10Boxes/1Carton

Label Form Specification

**EVERLIGHT** 

CPN:

P/N:

1254-10SURT/S530-A3

HUE:

MADE IN TAIWAN

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

#### 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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