



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-031-092 REV: 1.0

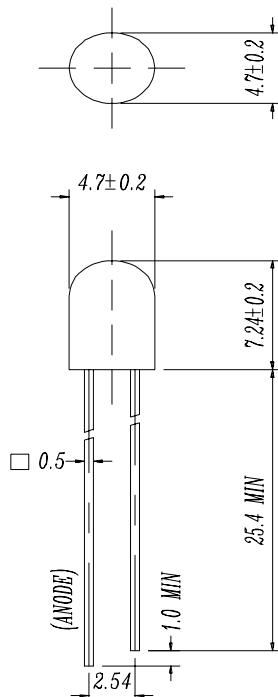
T-1 3/4 (4.7mm) Round Shape LED Lamps

MODEL NO : 313-2SURC/S530-A4 ECN : _____ Page: 1/4

■ Features :

- 4.7mm round without flange.
- Available on tape and reel.
- Reliable and rugged.
- Improved brightness.
- Narrow viewing angle.

■ Package Dimension:



■ Description :

- ϕ 4.7mm T-1(3/4)all resin mold.
- General application is for indication,illumination,etc.
- The LED lamp is available with different colors,light intensities,epoxy colors,etc.

■ Applications :

- TV Set
- Monitor
- Telephone
- Computer

■ NOTES :

- 1.All dimensions are in millimeters.
- 2.An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
313-2SURC/S530-A4	AlGaInP	Hyper Red	Water Clear

DESIGNER	CHECKER	APPROVER

Office : NO 25,Lane 76,Chung Yang Rd,Sec.3
Tucheng,Taipei 236,Taiwan,R.O.C.

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■ Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

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
Power Dissipation	Pd	60	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA
Reverse Voltage	Vr	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	Iv	----- 520	62.4 1040	-----	mcd	If=2mA If=20mA
Viewing Angle	$2\theta_{1/2}$	-----	20	-----	deg	If=20mA
Peak Wavelength	λ_p	-----	632	-----	nm	If=20mA
Dominant Wavelength	λ_d	-----	624	-----	nm	If=20mA
Spectrum Radiation Bandwidth	$\Delta\lambda$	---	20	---	nm	If=20mA
Forward Voltage	Vf	-----	2.0	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μA	Vr=5V

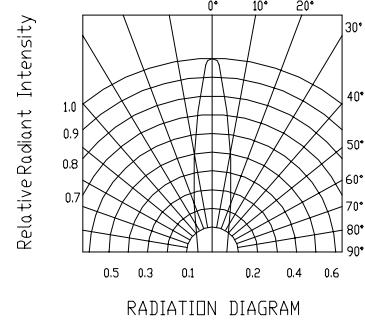
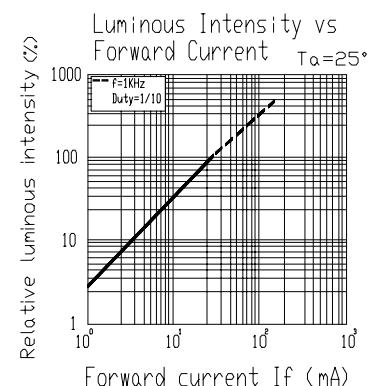
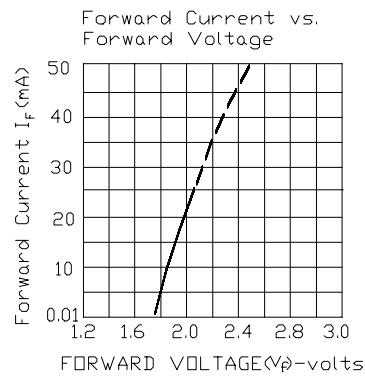
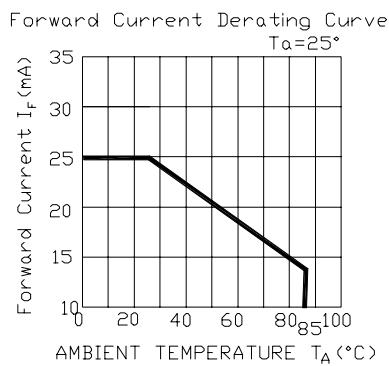
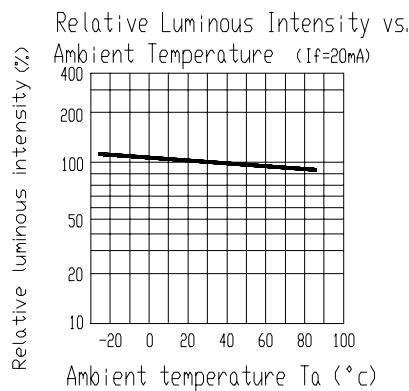
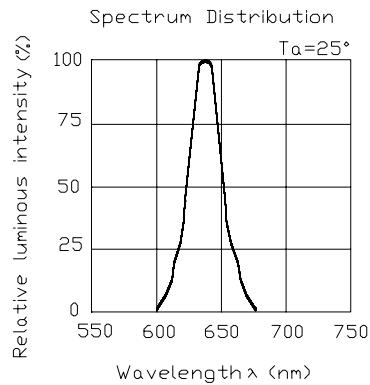
ESD:2000V



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■ Typical Electro-Optical Characteristic Curves





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■ Reliability test items and conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260°C ± 5 °C	10±1 SEC	76 Pcs	0/1
2	Solderability	TEMP : 230°C ± 5 °C	5±1 SEC	76 Pcs	0/1
3	Temperature Cycle	H : +85°C 30min ↓ 5 min L : -55°C 30min	50 CYCLE	76 Pcs	0/1
4	Thermal Shock	H : +100°C 5min ↓ 10 sec L : -10°C 5min	50 CYCLE	76 Pcs	0/1
5	High Temperature Storage	TEMP : 100°C	1000 HRS	76 Pcs	0/1
6	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 Pcs	0/1
7	DC Operating Life	If = 20 mA	1000 HRS	76 Pcs	0/1
8	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 Pcs	0/1