



# EVERLIGHT ELECTRONICS CO., LTD.

Device Number : CDLE-033-369 REV: 1

5.0mm Round Type LED Lamps

MODEL NO : 333-2SDRC/S530-A4 ECN : \_\_\_\_\_ Page: 1/4

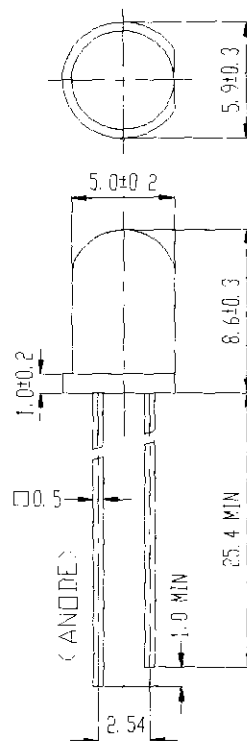
■ Features :

- LOW POWER CONSUMPTION.
- LONG LIFE FEATURE
- RELIABLE AND RUGGED

■ Description :

- The LED lamp is available with a choice of different colors, light intensities, epoxy colors, etc.

■ Package Dimension:



■ Applications :

- Audio Equipment
- Monitor
- Car meter
- Computer

■ NOTES :

1. All dimensions are millimeters (inch), tolerance is 0.25 mm except be specified.
2. An epoxy meniscus may extend about is 1.5mm (0.059") down the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
333-2SDRC/S530-A4	AlGaInP	Super Deep-Red	Water Clear

DESIGNER	CHECKER	APPROVED

Office : 7C Building, Lian Hua Port Industrial District, Lian Hua Shan Bonded Processing Zone Pan Yu, Guang Zhou, China  
 TEL : (020)84860913, 84860914  
 FAX : (020)84860600

T99740, B992038



# EVERLIGHT ELECTRONICS CO., LTD.

Device Number : CDLE-033-369 REV: 1

5.0mm Round Type LED Lamps

MODEL NO : 333-2SDRC/S530-A4 ECN :          Page: 2/4

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

Parameter	Symbol	Rating	Unit
Forward Current	$I_f$	25	mA
Reverse Voltage	$V_r$	5	V
Reverse Current	$I_r$	10	$\mu\text{A}$
Operating Temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Soldering Temperature	$T_{sol}$	$260 \pm 5$	$^\circ\text{C}$
Power Dissipation	$P_d$	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	$I_f(\text{Peak})$	180	mA

## ■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	$I_v$	400.0	1000.0	/	mcd	$I_f = 20 \text{ mA}$
Viewing Angle	$2\theta_{1/2}$	/	10	/	deg	$I_f = 20 \text{ mA}$
Peak Wavelength	$\lambda_p$	/	650	/	nm	$I_f = 20 \text{ mA}$
Dominant Wavelength	$\lambda_d$	/	639	/	nm	$I_f = 20 \text{ mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$	/	20	/	nm	$I_f = 20 \text{ mA}$
Forward Voltage	$V_f$	1.70	2.00	2.40	V	$I_f = 20 \text{ mA}$



# EVERLIGHT ELECTRONICS CO., LTD.

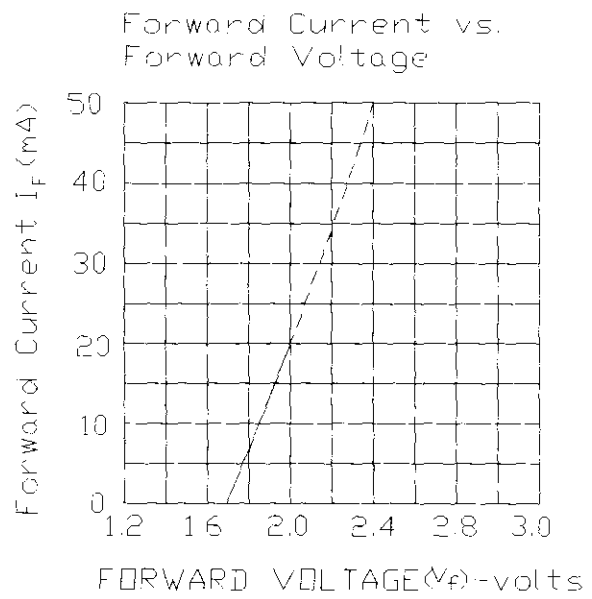
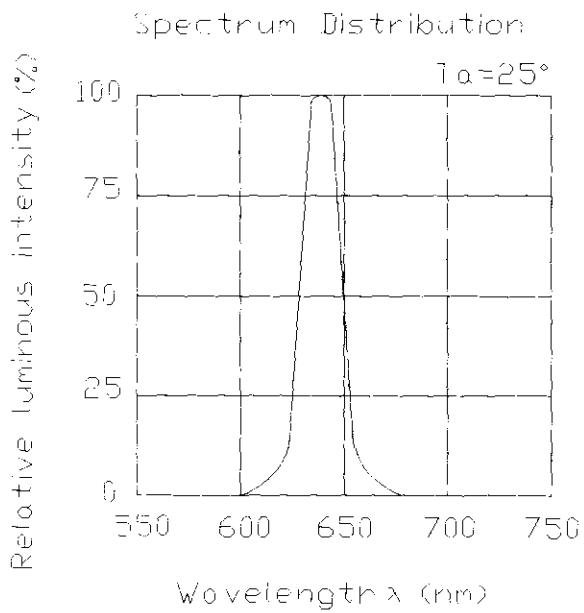
Device Number : CDLE-033-369 REV: 1

5.0mm Round Type LED Lamps

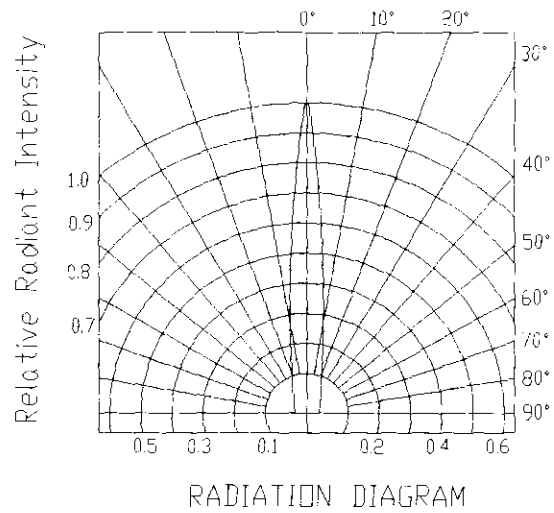
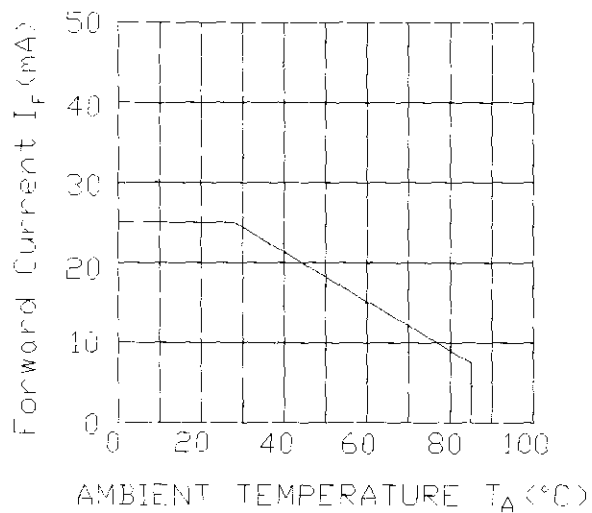
MODEL NO : 333-2SDRC/S530-A4 ECN : \_\_\_\_\_ Page: 3/4

## ■ Typical Electro-Optical Characteristic Curves

### (SDR)



### Forward Current Derating Curve





# EVERLIGHT ELECTRONICS CO., LTD.

Device Number : CDLE-033-369 REV: 1

5.0mm Round Type LED Lamps

MODEL NO : 333-2SDRC/S530-A4 ECN : \_\_\_\_\_ Page: 4/4

## ■ Reliability test item and condition

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