



EVERLIGHT ELECTRONICS CO., LTD.

Device Number : CDLE-033-190 REV: 3

5.0mm Round Type LED Lamps

MODEL NO : 333-2SURC/S530-A2 ECN : Page: 2/4

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

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_r	5	V
Reverse Current	I_r	10	μA
Operating Temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Soldering Temperature	T_{sol}	260 ± 5	$^\circ\text{C}$
Power Dissipation	P_d	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	$I_f(\text{Peak})$	160	mA

■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	I_v	344	837	/	mcd	$I_f = 20 \text{ mA}$
Viewing Angle	$2\theta_{1/2}$	/	10	/	deg	$I_f = 20 \text{ mA}$
Peak Wavelength	λ_p	/	639	/	nm	$I_f = 20 \text{ mA}$
Dominant Wavelength	λ_d	/	631	/	nm	$I_f = 20 \text{ mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$	/	20	/	nm	$I_f = 20 \text{ mA}$
Forward Voltage	V_f	1.7	2.0	2.4	V	$I_f = 20 \text{ mA}$
DC Forward Current	$I_f(\text{Rec})$	/	/	25	mA	



EVERLIGHT ELECTRONICS CO., LTD.

Device Number : CDLE-033-190 REV: 3

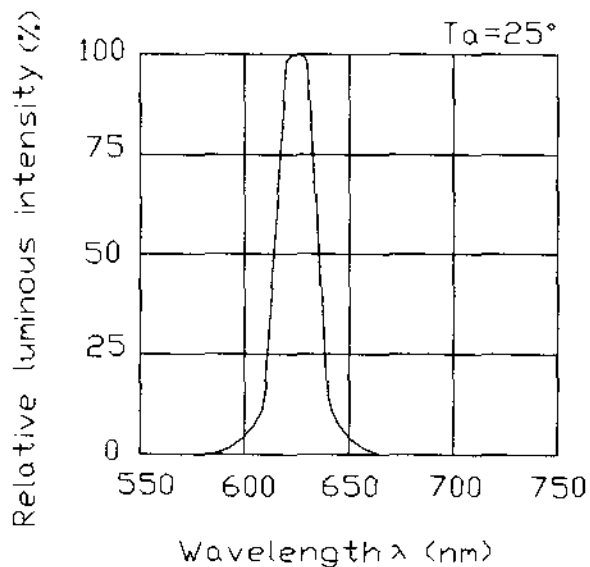
5.0mm Round Type LED Lamps

MODEL NO : 333-2SURC/S530-A2 ECN : _____ Page: 3/4

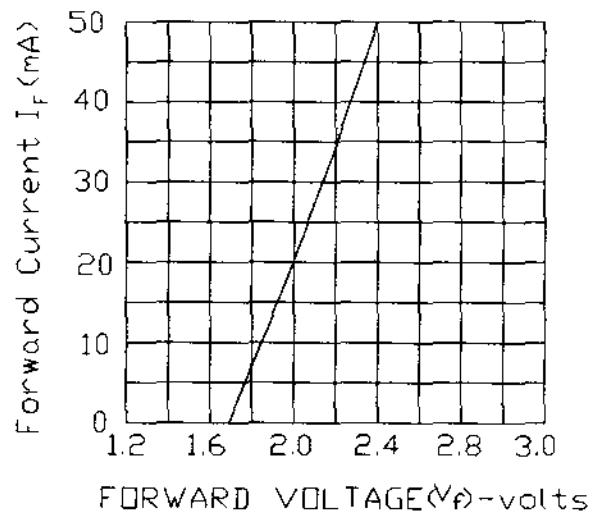
Typical Electro-Optical Characteristic Curves

(SUR)

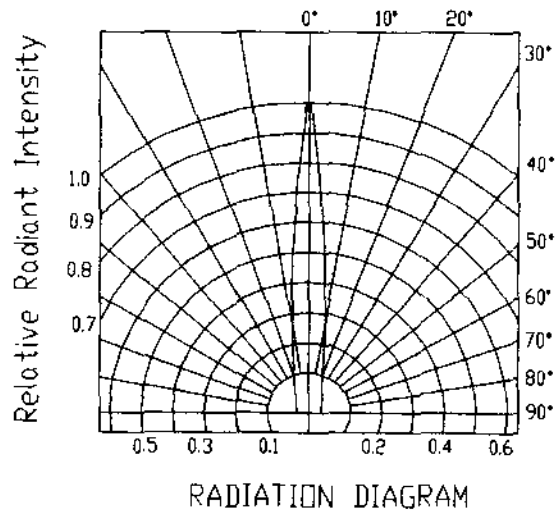
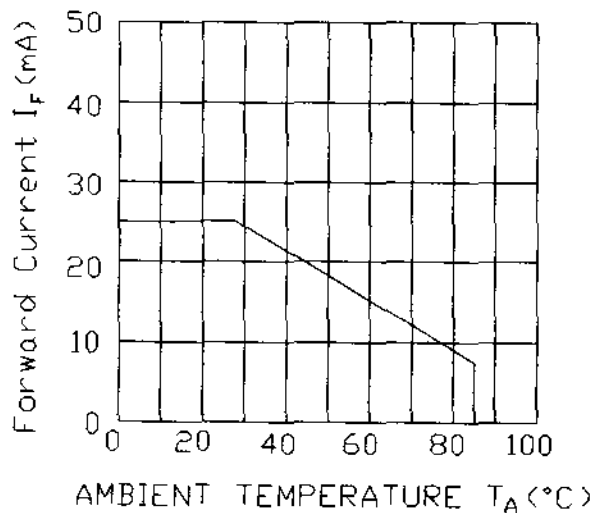
Spectrum Distribution



Forward Current vs. Forward Voltage



Forward Current Derating Curve





EVERLIGHT ELECTRONICS CO., ,LTD.

Device Number : CDLE-033-190 REV: 3

5.0mm Round Type LED Lamps

MODEL NO : 333-2SURC/S530-A2 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