



EVERLIGHT ELECTRONICS CO.,LTD.

DEVICE NUMBER : DLE-912-301 REV : 1.0
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1.8mm Round Subminiature Axial LEDs

PART NO. : 91-21UYC/S530-XX

Features :

- Package in 12mm tape on 7" diameter reels.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- IC compatible.
- EIA std package.
- Mono-color type.

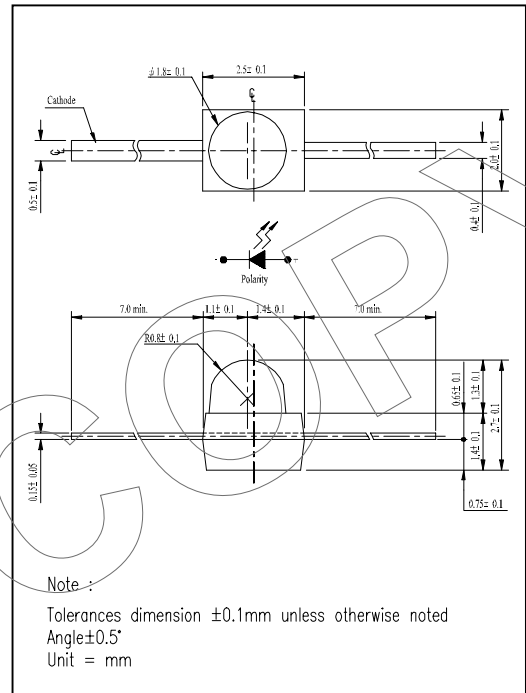
Descriptions :

- The 91-21 SMD taping is much smaller than lead frame type components. Thus enable smaller board size. Higher packing density. Reduced storage space and finally smaller equipment to be obtained.
- Besides, light weight makes them ideal for miniature applications, ect.
- Furthermore by automation assembly machines, the accuracy is anticipated.

Applications :

- Small indicator for outdoor applications.
- Flat backlight for LCD, switches and symbols.
- Indicator and backlight in office equipment.
- Indicator and backlight for battery driven equipment.
- Indicator and backlight for audio and video equipment.
- Automotive : backlighting in dashboards and switches.
- Telecommunication : indicator and backlighting in telephone and fax.
- General use.

Package Dimensions :



PART NO.	Chip		Lens Color
	Material	Emitted Color	
91-21UYC/S530-XX	AlGaInP	Super Yellow	Water Clear

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<http://www.everlight.com>



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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	Tsol	260 for 5 sec	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current (Duty 1/10 @ 1KHz)	IF(Peak)	160	mA

■ Electronic Optical Characteristics :

Parameter	Symbol	Chip Rank	MIN.	TYP.	MAX.	Unit	Condition		
Luminous Intensity	Iv	A2	----	32	----	mcd	IF = 2mA		
			198	529	----	mcd	IF = 20mA		
		A3	----	43	----	mcd	IF = 2mA		
			463	714	----	mcd	IF = 20mA		
		A4	----	54	----	mcd	IF = 2mA		
			661	892	----	mcd	IF = 20mA		
		A5	----	69	----	mcd	IF = 2mA		
			793	1156	----	mcd	IF = 20mA		
		A6	----	87	----	mcd	IF = 2mA		
			991	1454	----	mcd	IF = 20mA		
		Viewing Angle	2θ 1/2	----	----	25	----	deg	IF = 20mA
		Peak Wavelength	λ p	----	----	591	----	nm	
Dominant Wavelength	λ d	----	----	589	----	nm			
Spectrum Radiation Bandwidth	Δ λ	----	----	15	----	nm			
Forward Voltage	VF	----	----	2.0	2.4	V			
Reverse Current	IR	----	----	----	10	μ A	VR=5V		



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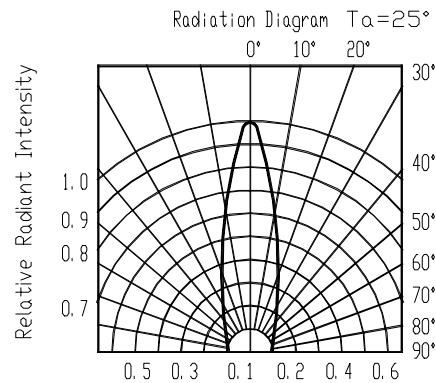
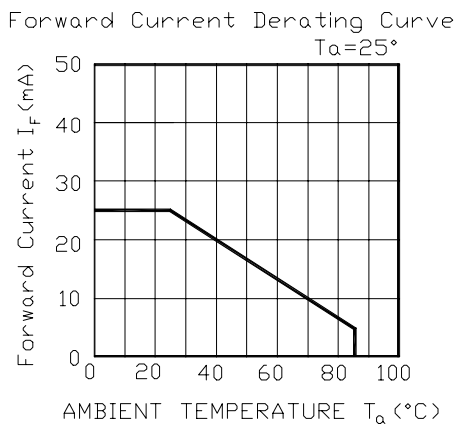
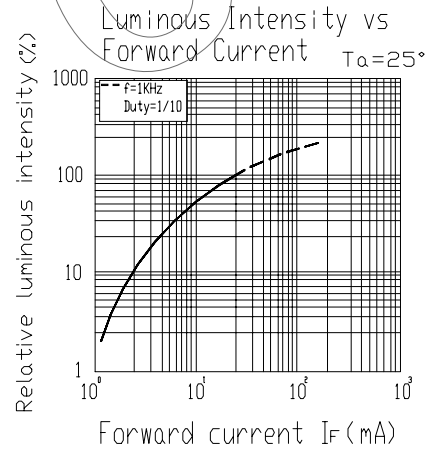
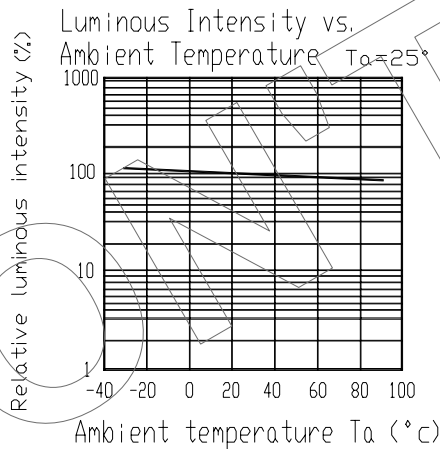
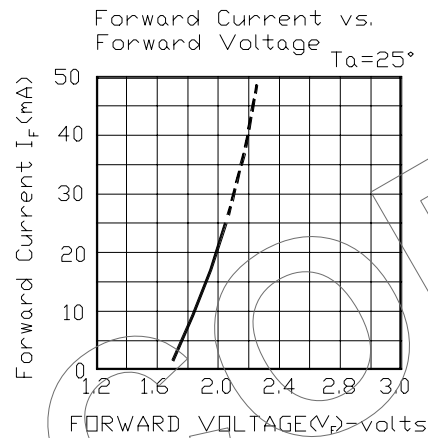
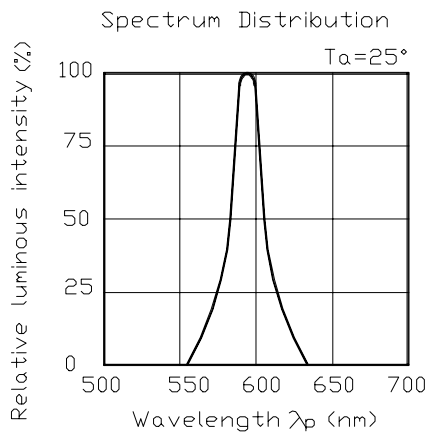
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Typical Electro-Optical Characteristic Curres





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■ Reliability Test Items And Conditions

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