



EVERLIGHT ELECTRONICS CO.,LTD.

DEVICE NUMBER : DLE-912-258 REV : 1.2

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1.8mm Round Subminiature "Yoke" Lead LEDs

MODEL NO : 91-21SYGC/S530-E2/TR9

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.

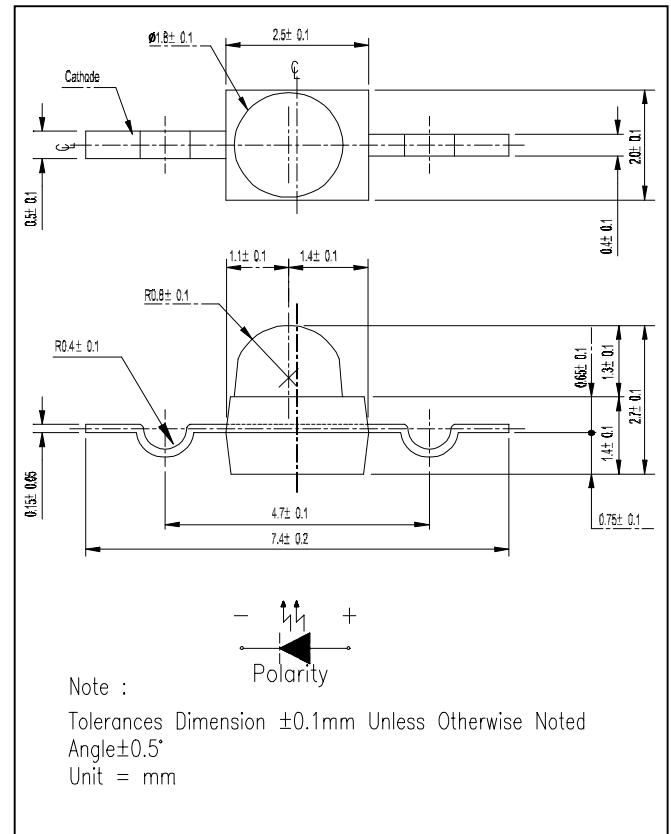
Descriptions :

- The 91-21 SMD taping is much smaller than lead fame type compoments. 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 application, 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 offic 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	
91-21SYGC/S530-E2/TR9	AlGaInP	Super Yellow Green	Water Clear

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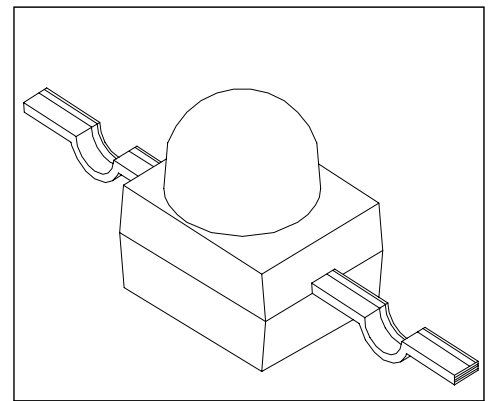
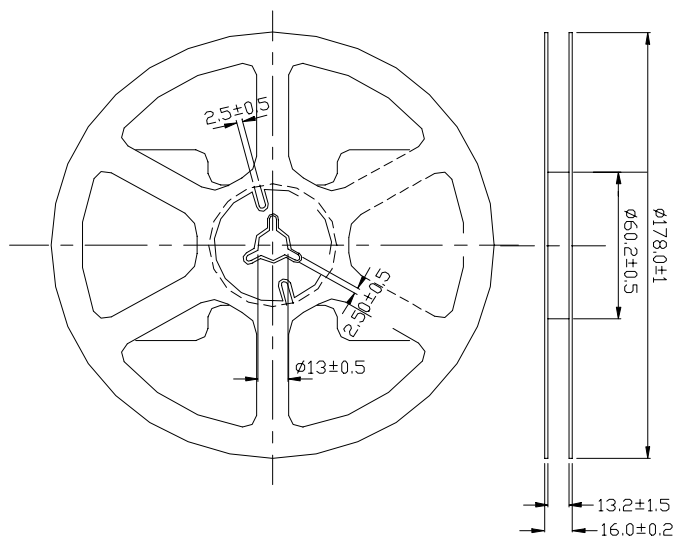
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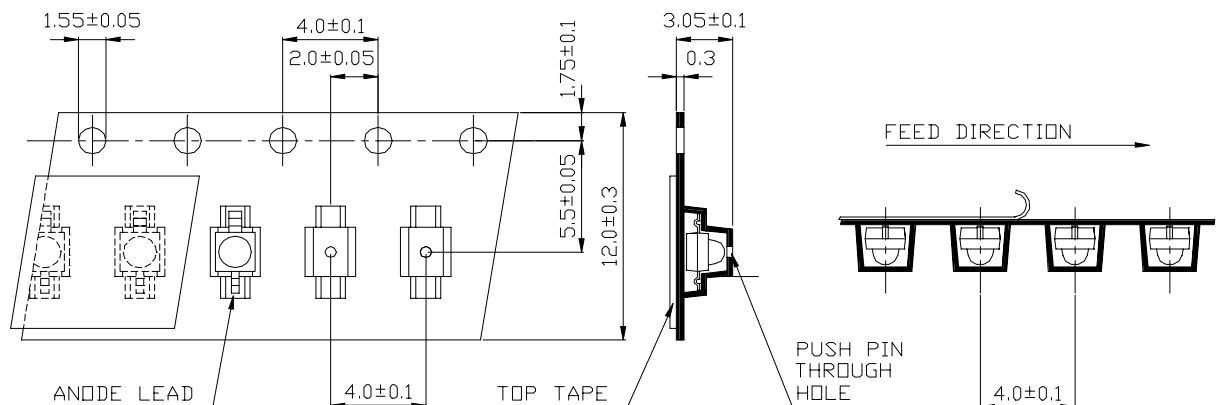
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■ Package Dimensions



■ Loaded Quantity Per Reel 1000 Pcs/Reel



1. All dimensions are in millimeters.
2. Lead spacing is measured where the lead emerge from the package
3. Protruded resin under flange 1.5 mm (0.59") max.



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Absolute Maximum Ratings at T_a = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	25	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	T _{sol}	260 ± 5 for 5 sec	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P _d	60	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	I _F (Peak)	160	mA

Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v	----	20	----	mcd	I _F = 2mA
Luminous Intensity	I _v	264	330	----	mcd	I _F = 20mA
Viewing Angle	2 θ 1/2	----	25	----	deg	
Peak Wavelength	λ _p	----	575	----	nm	
Dominant Wavelength	λ _d	----	573	----	nm	
Spectrum Radiation Bandwidth	△ λ	----	20	----	nm	
Forward Voltage	V _F	----	2.0	2.4	V	V _R =5V
Reverse Current	I _R	----	----	10	μ A	



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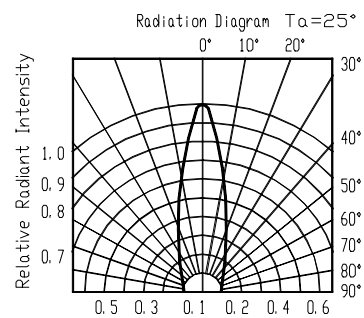
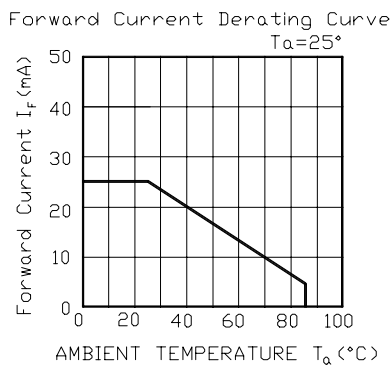
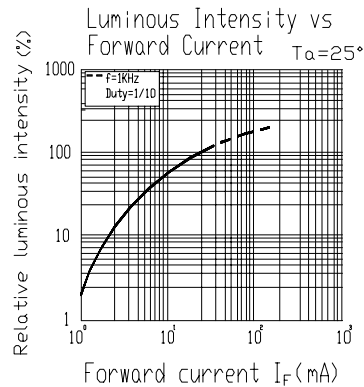
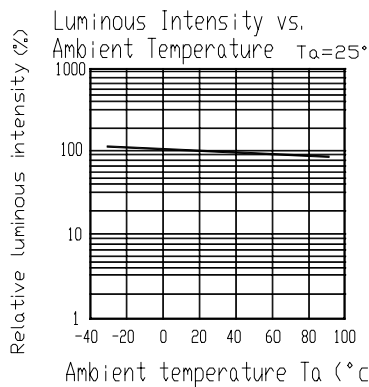
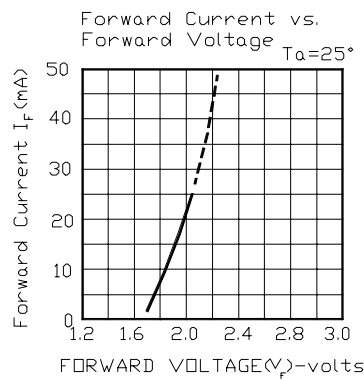
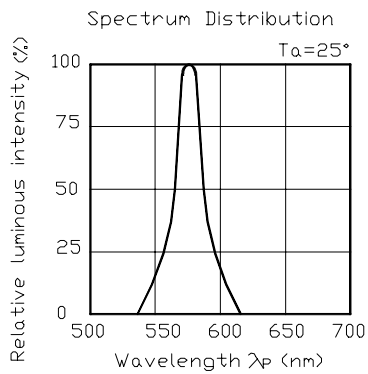
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Typical Electro-Optical Characteristic Curves





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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	<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div style="margin-bottom: 5px;">H : +85°C 30 min</div> <div style="font-size: 2em;">↕</div> <div style="margin-top: 5px;">L : -55°C 30 min</div> </div> <div style="margin: 0 10px; text-align: center;">5 min</div> </div>	50 CYCLES	76 PCS	0/1
3	Thermal Shock	<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div style="margin-bottom: 5px;">H : +100°C 5 min</div> <div style="font-size: 2em;">↕</div> <div style="margin-top: 5px;">L : -10°C 30 min</div> </div> <div style="margin: 0 10px; text-align: center;">10 sec</div> </div>	50 CYCLES	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% R.H.	1000 HRS	76 PCS	0/1