



# EVERLIGHT ELECTRONICS CO.,LTD.

DEVICE NUMBER : DLE-952-005

REV : 1.0

ECN :                     

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## 1.9mm Round Subminiature Axial LEDs

MODEL NO : 95-21SDRC/S530-A2

### Features :

- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- IC compatible.
- EIA std package.
- Mono-color type.

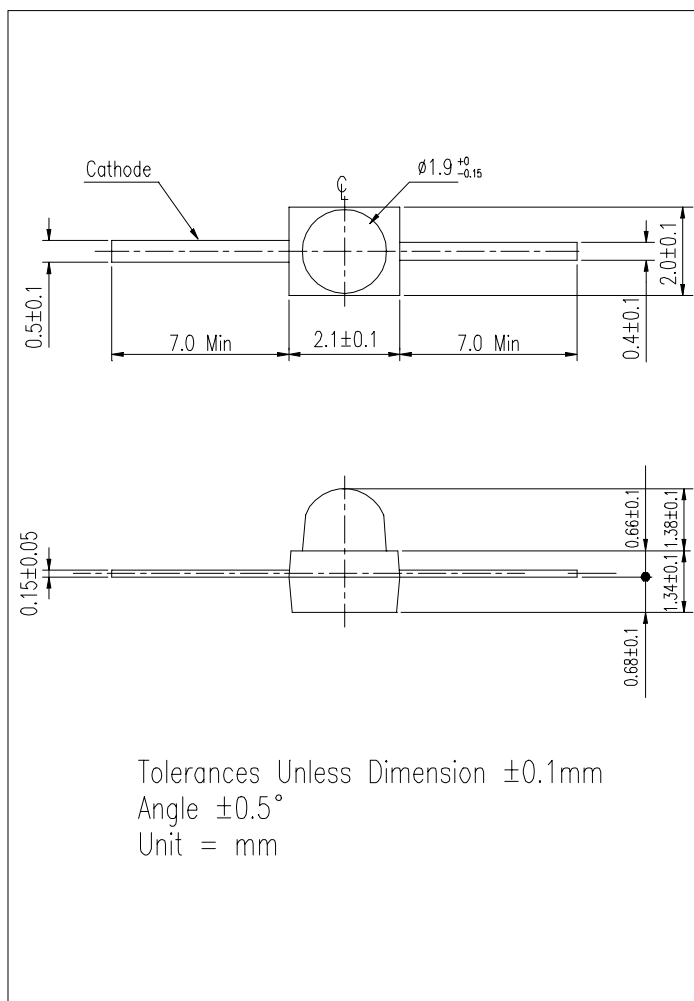
### Descriptions :

- Besides, light weight makes them ideal for miniature applications, etc.
- 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  |             |
| 95-21SDRC/S530-A2 | AlGaInP  | Super Deep-Red | Water Clear |

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### ■ Absolute Maximum Ratings at Ta = 25°C

| Parameter                              | Symbol                | Rating            | Unit |
|--|-----------------------|-------------------|------|
| Reverse Voltage                        | V <sub>r</sub>        | 5                 | V    |
| Forward Current                        | I <sub>f</sub>        | 25                | mA   |
| Operating Temperature                  | T <sub>opr</sub>      | -40 ~ +85         | °C   |
| Storage Temperature                    | T <sub>stg</sub>      | -40 ~ +100        | °C   |
| Soldering Temperature                  | T <sub>sol</sub>      | 260 ± 5 for 5 sec | °C   |
| Electrostatic Discharge                | ESD                   | 2000              | V    |
| Power Dissipation                      | P <sub>d</sub>        | 100               | mW   |
| Peak Forward Current(Duty 1/10 @ 1KHZ) | I <sub>f</sub> (Peak) | 180               | mA   |

### ■ Electronic Optical Characteristics :

| Parameter                    | Symbol         | MIN. | TYP. | MAX. | Unit | Condition             |
|------------------------------|----------------|------|------|------|------|-----------------------|
| Luminous Intensity           | I <sub>v</sub> | ---- | 24   | ---- | mcd  | I <sub>F</sub> = 2mA  |
| Luminous Intensity           | I <sub>v</sub> | 250  | 400  | ---- | mcd  | I <sub>F</sub> = 20mA |
| Viewing Angle                | 2 θ 1/2        | ---- | 25   | ---- | deg  |                       |
| Peak Wavelength              | λ <sub>p</sub> | ---- | 650  | ---- | nm   |                       |
| Dominant Wavelength          | λ <sub>d</sub> | ---- | 639  | ---- | nm   |                       |
| Spectrum Radiation Bandwidth | △ λ            | ---- | 20   | ---- | nm   |                       |
| Forward Voltage              | V <sub>F</sub> | ---- | 2.0  | 2.4  | V    | V <sub>R</sub> =5V    |
| Reverse Current              | I <sub>R</sub> | ---- | ---- | 10   | μ A  |                       |



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### ■ Reliability Test Item And Condition

| NO. | Item                             | Test Conditions  | Test Hours/<br>Cycle | Sample<br>Size | Ac/Re |
|-----|----------------------------------|--|----------------------|----------------|-------|
| 1   | Solder Heat                      | TEMP : 260°C ± 5 °C                                      | 5 sec                | 76 pcs         | 0/1   |
| 2   | Temperature Cycle                | H : +85°C 30 min<br>↑<br>5 min<br>↓<br>L : -55°C 30 min  | 50 cycle             | 76 pcs         | 0/1   |
| 3   | Thermal Shock                    | H : +100°C 5 min<br>↑<br>10 sec<br>↓<br>L : -10°C 30 min | 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% R.H.  | 1000 hrs             | 76 pcs         | 0/1   |



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### Typical Electro-Optical Characteristic Curves

