

## Description

The SR661D, SG261D and SY461D are rectangular (2mm × 3mm) plastic-resin-encapsulated LED lamps which uniformly emit brilliant red, green and amber light. They are suitable for use as fashionable indicators on the panels of audio/video equipment and elsewhere.

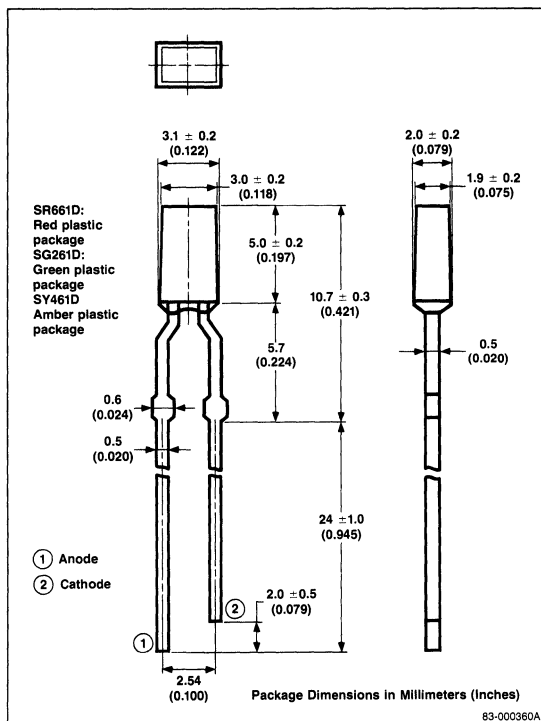
## Features

- ☐ Flat rectangular face
- ☐ Low cost
- ☐ Long lead
- ☐ Bright red, green or amber
- ☐ Compatible with integrated circuits

## Applications

- ☐ Visual displays
- ☐ Radio and stereo equipment indicators
- ☐ Measuring instrument terminals

## Package Dimensions



## Absolute Maximum Ratings

$T_A = +25^\circ\text{C}$

|                                |                 |
|--------------------------------|-----------------|
| Power Dissipation, $P_D$       | 100mW           |
| Forward Current, $I_F$         | 40mA            |
| Reverse Voltage, $V_R$         | 5V              |
| Junction Temperature, $T_J$    | 100°C           |
| Storage Temperature, $T_{STG}$ | -40°C to +100°C |

## Electro-Optical Characteristics

$T_A = +25^\circ\text{C}$

| Parameters               | Symbol            | Limits |      |     | Unit | Test Conditions       |
|--------------------------|-------------------|--------|------|-----|------|-----------------------|
|                          |                   | Min    | Typ  | Max |      |                       |
| Forward Voltage          |                   |        |      |     |      |                       |
| SR661D                   | V <sub>F</sub>    |        | 2.0  | 2.5 | V    | I <sub>F</sub> = 10mA |
| SG261D                   | V <sub>F</sub>    |        | 2.0  | 2.5 | V    | I <sub>F</sub> = 10mA |
| SY461D                   | V <sub>F</sub>    |        | 2.0  | 2.5 | V    | I <sub>F</sub> = 10mA |
| Reverse Current          |                   |        |      |     |      |                       |
| SR661D                   | I <sub>R</sub>    |        | 0.01 | 10  | μA   | V <sub>R</sub> = 4.5V |
| SG261D                   | I <sub>R</sub>    |        | 0.01 | 10  | μA   | V <sub>R</sub> = 4.5V |
| SY461D                   | I <sub>R</sub>    |        | 0.01 | 10  | μA   | V <sub>R</sub> = 4.5V |
| Capacitance              |                   |        |      |     |      |                       |
| SR661D                   | C <sub>T</sub>    |        | 100  |     | pF   | V = 0,<br>f = 1.0MHz  |
| SG261D                   | C <sub>T</sub>    |        | 100  |     | pF   | V = 0,<br>f = 1.0MHz  |
| SY461D                   | C <sub>T</sub>    |        | 60   |     | pF   | V = 0,<br>f = 1.0MHz  |
| Peak Emission Wavelength |                   |        |      |     |      |                       |
| SR661D                   | λ <sub>PEAK</sub> |        | 630  |     | nm   | I <sub>F</sub> = 10mA |
| SG261D                   | λ <sub>PEAK</sub> |        | 565  |     | nm   | I <sub>F</sub> = 10mA |
| SY461D                   | λ <sub>PEAK</sub> |        | 590  |     | nm   | I <sub>F</sub> = 10mA |
| Spectral Line Half Width |                   |        |      |     |      |                       |
| SR661D                   | Δλ                |        | 40   |     | nm   | I <sub>F</sub> = 10mA |
| SG261D                   | Δλ                |        | 40   |     | nm   | I <sub>F</sub> = 10mA |
| SY461D                   | Δλ                |        | 40   |     | nm   | I <sub>F</sub> = 10mA |
| Luminous Intensity       |                   |        |      |     |      |                       |
| SR661D                   | I <sub>V</sub>    | 0.4    | 1.0  |     | mcd  | I <sub>F</sub> = 10mA |
| SG261D                   | I <sub>V</sub>    | 0.4    | 1.5  |     | mcd  | I <sub>F</sub> = 10mA |
| SY461D                   | I <sub>V</sub>    | 0.4    | 1.5  |     | mcd  | I <sub>F</sub> = 10mA |

**Typical Characteristics**

$T_A = +25^\circ\text{C}$

