

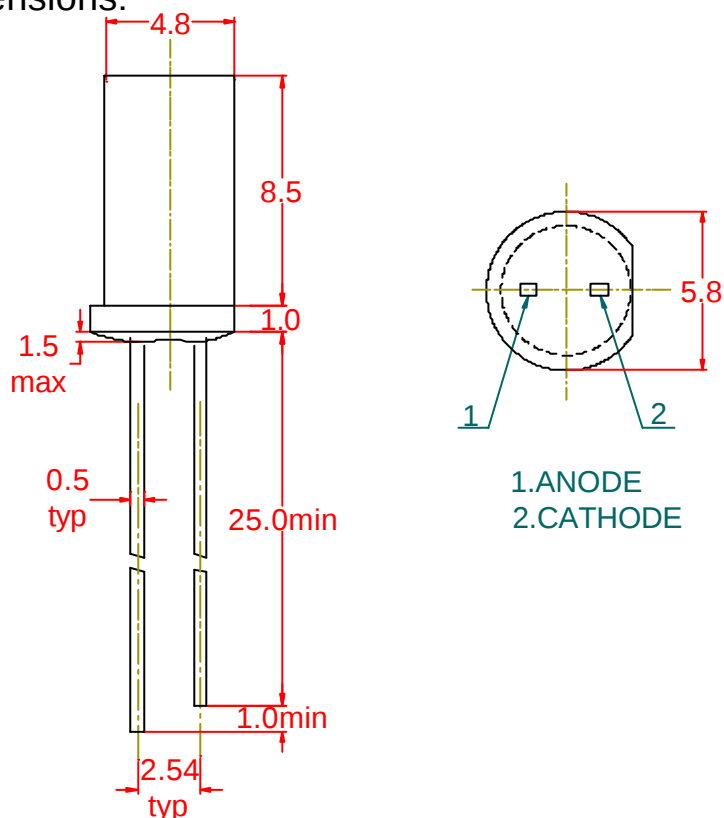
# LED DATA SHEET

|               |          |             |             |
|---------------|----------|-------------|-------------|
| Part No.      | LSR20633 |             |             |
| Emitted Color | High Red | Len's Color | Water Clear |

## Features:

4.8mm Cylindrical resin mold type  
General purpose leads  
Chip material : GaAlAs

## Package Dimensions:



## Note:

- 1、 All dimensions are in millimetres (mm)
- 2、 Tolerance is  $\pm 0.25\text{mm}$  unless otherwise noted

## Absolute Maximum Rating ( Ta=25 )

| Parameter                                                 | Symbol    | Max.      | Unit |
|-----------------------------------------------------------|-----------|-----------|------|
| Power Dissipation                                         | $P_M$     | 70        | Mw   |
| Pulse Forward Current (Duty 1/10 @ 1kHz)                  | $I_{FP}$  | 80        | mA   |
| Continuous Forward Current                                | $I_F$     | 25        | mA   |
| Reverse Voltage                                           | $V_R$     | 6         | V    |
| Operating Temperature Range                               | $T_{opr}$ | -25 ~ 85  |      |
| Storage Temperature Range                                 | $T_{stg}$ | -40 ~ 100 |      |
| Solder Temperature : 2.0mm From Body For 3 Seconds at 260 |           |           |      |

## Electrical Optical Characteristics ( Ta=25 )

| Parameter                | Symbol           | Min. | Typ. | Max. | Unit    | Test Condition |
|--------------------------|------------------|------|------|------|---------|----------------|
| Luminous Intensity       | $I_V$            | --   | 15   | --   | mcd     | $I_F = 10mA$   |
| Forward Voltage          | $V_F$            | --   | 1.8  | 2.5  | V       | $I_F = 20mA$   |
| Reverse Current          | $I_R$            | --   |      | 50   | $\mu A$ | $V_R = 5V$     |
| Dominant Wavelength      | $\lambda_d$      | --   | 645  | --   | nm      | $I_F = 20mA$   |
| Peak Emission Wavelength | $\lambda_p$      | --   | 655  | --   | nm      | $I_F = 20mA$   |
| Spectral Line Half Width | $\Delta \lambda$ | --   | 20   | --   | nm      | $I_F = 20mA$   |
| Viewing Angle            | $2\theta_{1/2}$  | --   | 40   | --   | Deg.    | $I_F = 20mA$   |

### Note:

- 1、The luminous intensity data and  $\lambda_p$  is survey values with the machine JF- 、JS-2000.
- 2、 $2\theta_{1/2}$  is the clip angle at which the luminous intensity is half the axial luminous intensity.

## Typical Characteristic Curves:

