

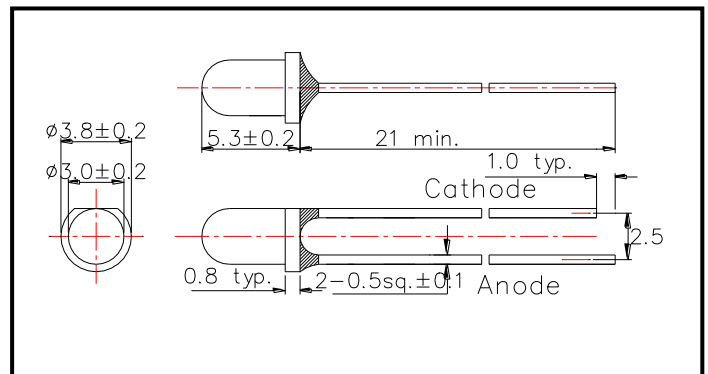
# L625-33 Super Bright Orange LED

L625-33 is an AlInGaP LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light which peaks 625nm.

◆ Specifications

- 1) Product Name            Super bright Orange LED
- 2) Type No.                L625-33
- 3) Chip
- (1) Chip Material        AlInGaP
- (2) Peak Wavelength    625nm typ.
- 4) Package
- (1) Type                    Φ3mm clear molding
- (2) Resin Material        Epoxy Resin
- (3) Lead Frame            Soldered(Lead Free)

◆ Outer dimension (Unit : mm)



◆ Absolute Maximum Ratings

| Item                  | Symbol           | Maximum Rated Value | Unit | Ambient Temperature  |
|-----------------------|------------------|---------------------|------|----------------------|
| Power Dissipation     | P <sub>D</sub>   | 120                 | mW   | T <sub>a</sub> =25°C |
| Forward Current       | I <sub>F</sub>   | 50                  | mA   | T <sub>a</sub> =25°C |
| Reverse Voltage       | V <sub>R</sub>   | 5                   | V    | T <sub>a</sub> =25°C |
| Operating Temperature | T <sub>OPR</sub> | -30 ~ +85           | °C   |                      |
| Storage Temperature   | T <sub>STG</sub> | -30 ~ +100          | °C   |                      |
| Soldering Temperature | T <sub>SOL</sub> | 265                 | °C   |                      |

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

◆ Electro-Optical Characteristics

| Item                 | Symbol           | Condition            | Minimum | Typical | Maximum | Unit |
|----------------------|------------------|----------------------|---------|---------|---------|------|
| Forward Voltage      | V <sub>F</sub>   | I <sub>F</sub> =20mA |         | 2.0     | 2.3     | V    |
| Reverse Current      | I <sub>R</sub>   | V <sub>R</sub> =5V   |         |         | 10      | uA   |
| Total Radiated Power | P <sub>O</sub>   | I <sub>F</sub> =20mA |         | 7.5     |         | mW   |
| Brightness           | I <sub>v</sub>   | I <sub>F</sub> =20mA |         | 4,500   |         | mcd  |
| Wavelength(peak)     | λ <sub>P</sub>   | I <sub>F</sub> =20mA | 615     | 625     | 630     | nm   |
| Half Width           | Δλ               | I <sub>F</sub> =20mA |         | 15      |         | nm   |
| Wavelength(dominat)  | λ <sub>D</sub>   | I <sub>F</sub> =20mA | (605)   | -       | (617)   | nm   |
| Viewing Half Angle   | θ <sub>1/2</sub> | I <sub>F</sub> =20mA |         | ±15     |         | deg. |

‡Brightness is measured by S3584-08.

‡Total Radiated Power is measured by Photodyne #500