

## Visible Emitter

Features:

- High Output Power
- Wide Beam Angle

Applications:

- Fiber Optic Sensor
- Optical Sensor
- Bar-Code Reader
- Edge Sensing (Coin Dispenser)

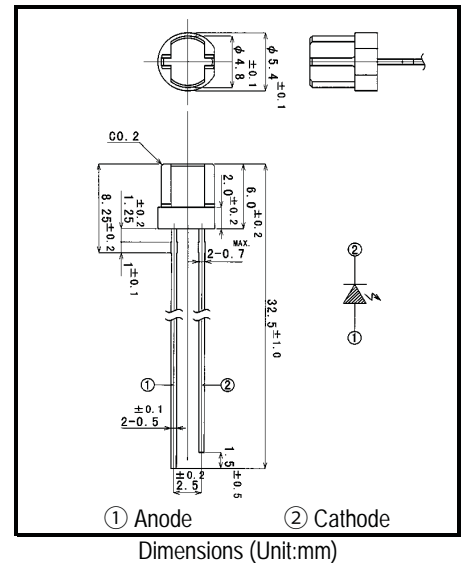


## Absolute Maximum Ratings (Ta=25°C)

| Items                     | Symbol | Ratings    | Unit |
|---------------------------|--------|------------|------|
| Forward Current (DC)      | IF     | 50         | mA   |
| Forward Current (Pulse)*1 | IFP    | 0.5        | A    |
| Reverse Voltage           | VR     | 5          | V    |
| Power Dissipation         | PD     | 120        | mW   |
| Operating Temperature     | Topr   | -20 ~ +80  | °C   |
| Storage Temperature       | Tstg   | -30 ~ +100 | °C   |
| Junction Temperature      | Tj     | 100        | °C   |
| Lead Soldering Temp*2     | Tsol   | 260        | °C   |

\*1: Tw=10μs, T=10ms

\*2: Time 5 Sec max, Position: Up to 3mm from the body.



## Electrical & Optical Characteristics (Ta = 25°C)

| Items                     | Symbol | Conditions | Min | Typ  | Max | Unit  |
|---------------------------|--------|------------|-----|------|-----|-------|
| Power Output              | PO     | IF=20mA    | --  | 5.0  | --  | mW    |
| Forward Voltage           | VF     | IF=20mA    | --  | 1.8  | 2.2 | V     |
| Reverse Current           | IR     | VR=5V      | --  | --   | 100 | μA    |
| Peak Wavelength           | λp     | IF=20mA    | --  | 660  | --  | nm    |
| Spectral Line Half Width  | Δλ     | IF=20mA    | --  | 25   | --  | nm    |
| Half Intensity Beam Angle | θ      | IF=20mA    | --  | ±55  | --  | deg.  |
| Rise Time                 | Tr     | IFP=20mA   | --  | 30   | --  | nS    |
| Fall Time                 | Tf     | IFP=20mA   | --  | 30   | --  | nS    |
| Junction Capacitance      | Cj     | 1MHz, V=0V | --  | 20   | --  | pF    |
| Temp. Coefficient of PO   | P/T    | IF=10mA    | --  | -0.5 | --  | %/°C  |
| Temp Coefficient of VF    | V/T    | IF=10mA    | --  | -1.5 | --  | mV/°C |

## Graphs:

