

Features:

- High luminosity LEDs
- 2.0mm tower standard directivity
- Superior weather-resistance
- UV resistant epoxy
- Integral current limiting resistor
- TTL compatible (requires no external current limiter with 12 volt supply)
- Cost effective (saves space and resistor cost)
- Colour diffused type

Applications

- Electronic signs and signals
- Small area illuminations
- Back lighting
- Other lighting

Absolute maximum rating (Ta=25°C)

| Item | Symbol | Value | Unit |
|----------------------------|-----------|-------------|------|
| DC forward voltage | V_F | 12 | V |
| Reverse voltage | V_R | 5 | V |
| Power dissipation | P_D | 120 | mW |
| Operating temperature | T_{opr} | -30 to +85 | °C |
| Storage temperature | T_{stg} | -40 to +100 | °C |
| Lead soldering temperature | T_{sol} | 260°C/5sec | - |

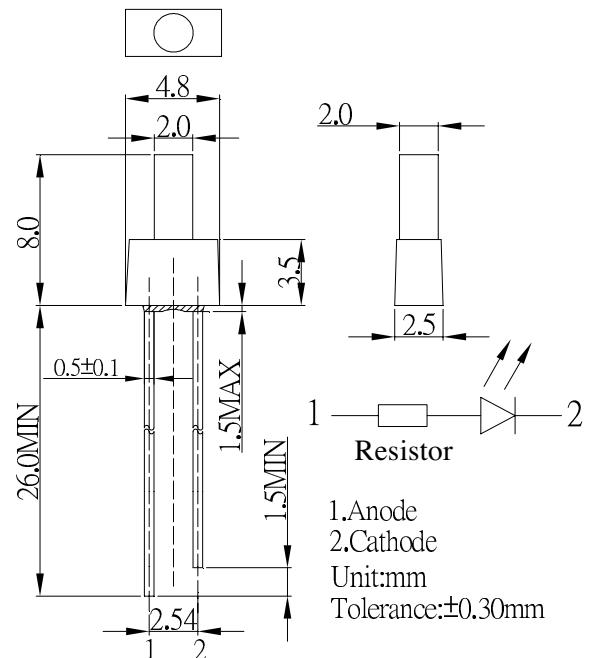
*Pulse width max. 10ms. Duty ratio max. 1/10

Electrical - Optical characteristics (Ta=25°C)

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|----------------------|-----------------|-------------|------|------|------|---------|
| DC forward current | I_F | $I_F = 12V$ | - | 10 | - | mA |
| DC reverse current | I_R | $V_R = 5V$ | - | - | 10 | μA |
| Dominant wavelength* | λ_D | $I_F = 12V$ | 620 | 625 | 630 | nm |
| Luminous intensity* | I_v | $I_F = 12V$ | 40 | 68 | - | mcd |
| 50% Power angle | $2\theta_{1/2}$ | $I_F = 12V$ | - | 90 | - | deg |

*1 Tolerance of dominant wavelength is $\pm 1nm$
 *2 Tolerance of luminous intensity is $\pm 15\%$
 *3 Tolerance of measurements of forward voltage is $\pm 0.1V$

Outline dimensions:



Directivity:

