

3mm Standard LED, Cylindrical Flat Top Lens Yellow Emitting Colour

multicomp PRO

**RoHS
Compliant**



Feature

- High intensity
- Standard 3mm (T-1) diameter flat top package
- General purpose LED
- Reliable and rugged

Specification

Lead spacing is measured where the leads emerge from the package

| Source Colour | Chip Material | Lens Colour |
|---------------|---------------|-----------------|
| Yellow | AlGaAs | Yellow Diffused |

Absolute Maximum Rating at $T_A = 25^\circ\text{C}$

| Parameter | Max. | Unit |
|---|---|----------------------|
| Power Dissipation | 80 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | mA |
| Continuous Forward Current | 20 | mA |
| Derating Linear From 50°C | 0.4 | mA/ $^\circ\text{C}$ |
| Reverse Voltage | 5 | V |
| Operating Temperature Range | -25°C to $+80^\circ\text{C}$ | |
| Storage Temperature Range | -40°C to $+100^\circ\text{C}$ | |
| Lead Soldering Temperature [4mm (0.157) From Body] | 260 $^\circ\text{C}$ for 5 seconds | |

Electrical Optical Characteristics at $T_A=25^\circ\text{C}$

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-----------------|------|------|------|---------------|------------------------------|
| Luminous Intensity | I_v | | 20 | | mcd | $I_f = 20\text{mA}$ (Note 1) |
| Viewing Angle | $2\theta_{1/2}$ | | 100 | | Deg. | Note 2 |
| Peak Emission Wavelength | λ_p | | 590 | | nm | $I_f = 20\text{mA}$ |
| Dominant Wavelength | λ_d | | 585 | | nm | $I_f = 20\text{mA}$ (Note 3) |
| Spectral Line Half-Width | $\Delta\lambda$ | | 25 | | nm | $I_f = 20\text{mA}$ |
| Forward Voltage | V_f | | 2 | 2.5 | V | $I_f = 20\text{mA}$ |
| Reverse Current | I_R | - | - | 100 | μA | $V_R = 5\text{V}$ |

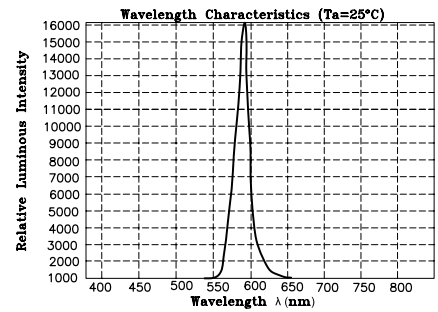
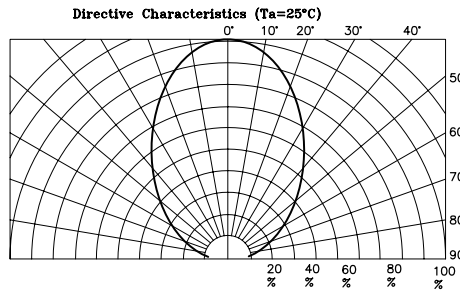
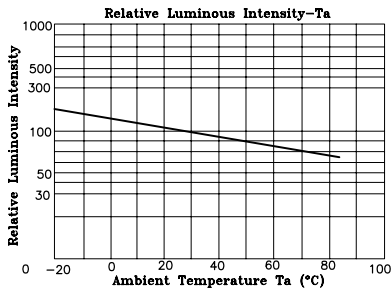
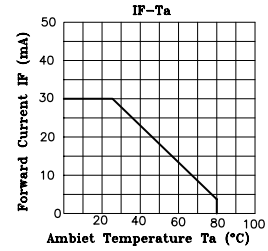
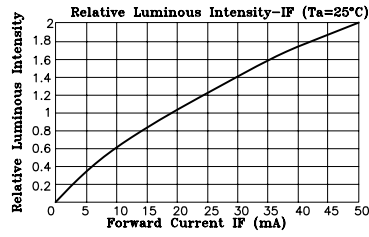
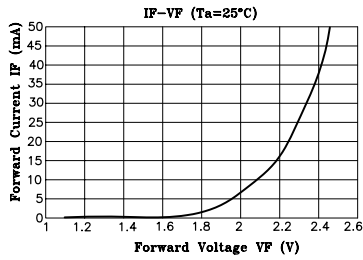
Notes:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity single wavelength which defines the colour of the device.

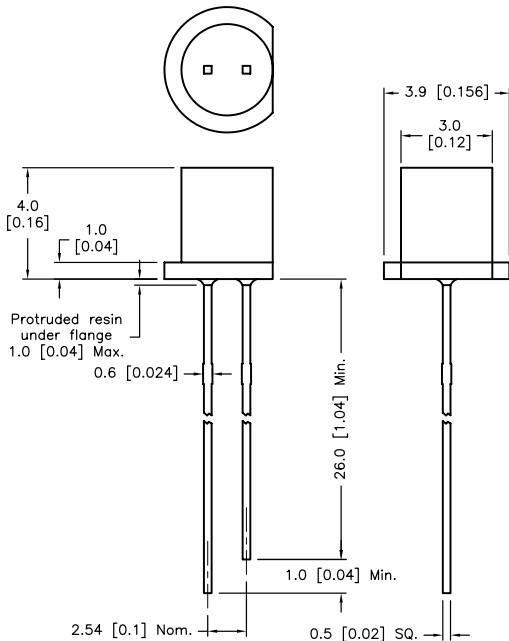
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Diagram



Dimensions : Millimetres (Inches)

Part Number Table

| Description | Part Number |
|---|-------------|
| 3mm Standard LED, Cylindrical Flat Top Lens, Yellow Emitting Colour | MC20448 |

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