

3mm Round LED Lamp

multicomp PRO

**RoHS
Compliant**



Specifications:

| | |
|-------------------------|----------------|
| Dice Material | : GaAsP on GaP |
| Emitted Colour | : Hi-Eff Red |
| Lens Colour | : Red Diffused |
| Peak Wavelength | : 635nm |
| Viewing Angle | : 50 Deg. |
| Luminous Intensity (IV) | : 40mcd |

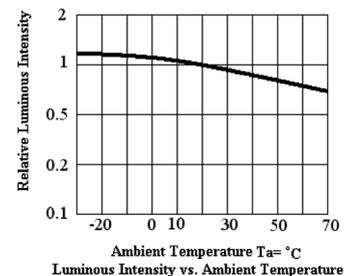
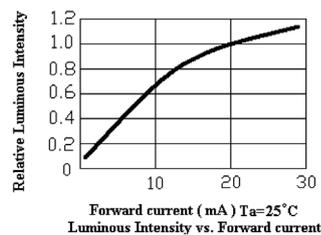
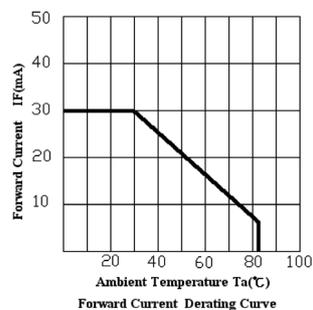
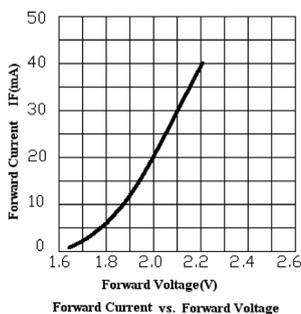
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

| | |
|---|---|
| Reverse Voltage | 5V |
| Reverse Current | 10 μA ($V_R = 5\text{V}$) |
| Operating Temperature Range | -40 $^\circ\text{C}$ to +85 $^\circ\text{C}$ |
| Storage Temperature Range | -40 $^\circ\text{C}$ to +100 $^\circ\text{C}$ |
| Lead Soldering Temperature Range 1.6mm (1/16 inch) from body | 260 $^\circ\text{C}$ for 5 Seconds |

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

| Parameter | Symbol | Minimum | Typical | Maximum | Unit | Test |
|--|-----------------|---------|---------|---------|---------|-----------|
| Luminous Intensity | IV | 25 | 40 | 60 | mcd | IF = 20mA |
| Viewing Angle | 2 θ 1/2 | | 50 | | Degrees | |
| Peak Emission Wavelength | λ_P | | 635 | | nm | |
| Dominant Wavelength | λ_D | 620 | 625 | 630 | | |
| Spectral Line Half-Width | $\Delta\lambda$ | | 45 | | | |
| Forward Voltage | V _F | 1.8 | 2 | 2.6 | V | IF = 20mA |
| Power Dissipation | P _d | | | 85 | mW | |
| Peak Forward Current (Duty 1/10 at 1kHz) | IF (Peak) | | | 100 | mA | |
| Recommended Operating Current | IF (Rec) | | 20 | | mA | |

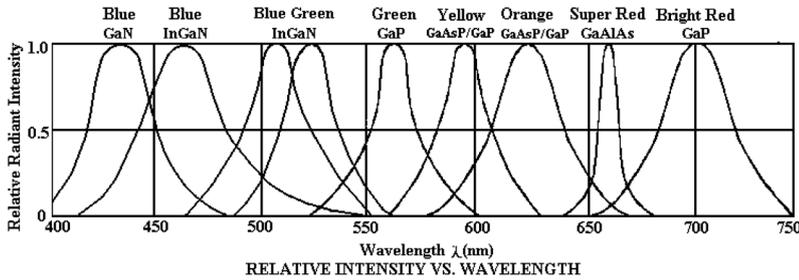
Typical Electro-Optical Characteristics Curves



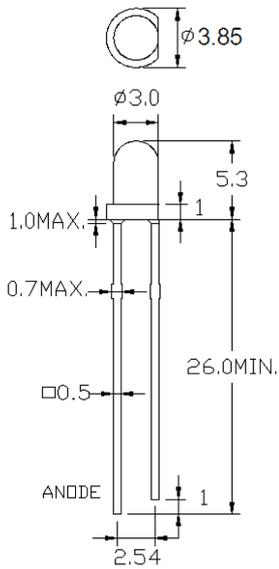
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3mm Round LED Lamp



Diagram



Dimensions : Millimetres

Part Number Table

| Description | Part Number |
|---|-------------|
| 3mm Round LED Lamp, Hi-Eff Red, 50°, TH | MCL034MD |

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