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<u>703-0090</u> <u>287-10600</u>

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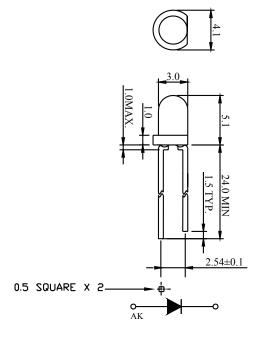
Cette fiche technique est présentée par le fabricant

# **3mm Round LED Lamp**



## **Package Dimensions:**





All dimensions are in mm Tolerance: ±0.25mm

#### Features:

- Red lamp
- Made with AlGaAs / GaAs chip and red clear epoxy resin

### Absolute Maximum Ratings at Ta=25°C

| Parameter   | Symbol    | Rating  | Unit |
|---|-----------|---|------|
| Power Dissipation                                   | Po        | 66  | mW   |
| Reverse Voltage                                     | VR        | 4   | V    |
| D.C. Forward Current                                | lf        | 30  | mA   |
| Reverse (Leakage) Current                           | lr        | 100   | μΑ   |
| Peak Current (1 / 10 Duty Cycle, 0.1ms Pulse Width) | If (Peak) | 100 mA  |      |
| Operating Temperature Range                         | Topr      | -25 to + 85   |      |
| Storage Temperature Range                           | Tstg      | -40 to +100 °C  |      |
| Soldering Temperature (1.6mm from body)             | Tsol      | Dip Soldering: 260°C for 5sec.<br>Hand Soldering: 350°C for 3sec. |      |





# **3mm Round LED Lamp**



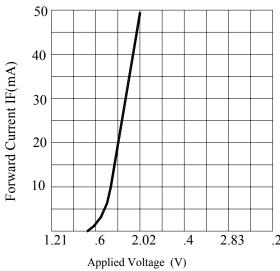
### **Electrical & Optical Characteristics:**

| Parameter                 | Symbol | Condition | Min. | Тур. | Max. | Unit |
|---------------------------|--------|-----------|------|------|------|------|
| Luminous Intensity        | lv     | If = 20mA | 45   | 100  |      | mcd  |
| Forward Voltage           | Vf     | If = 20mA |      | 1.8  | 2.2  | V    |
| Peak Wavelength           | λр     | If = 20mA |      | 660  |      | nm   |
| Dominant Wavelength       | λd     | If = 20mA |      | 643  |      | nm   |
| Reverse (Leakage) Current | lr     | Vr = 5V   |      |      | 100  | μA   |
| Viewing Angle             | 2θ½    | If = 20mA |      | 35   |      | deg  |
| Spectrum Line Halfwidth   | Δλ     | If = 20mA |      | 20   |      | nm   |

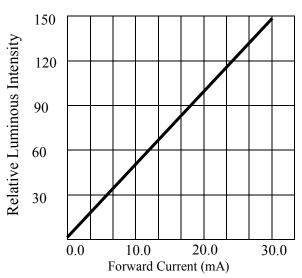
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Notes: 1. The data is tested by IS tester.

### **Typical Electrical & Optical Characteristics Curves:**



FORWARD CURRENT VS.APPLIED VOLTAGE

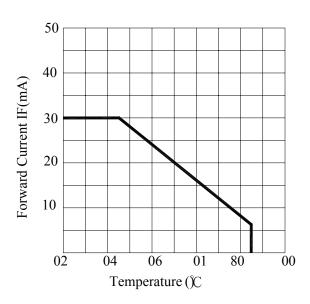


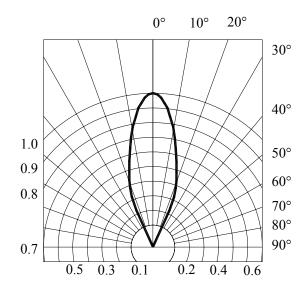
FORWARD CURRENT VS. LUMINOUS INTENSITY

<sup>2.</sup> Customer's special requirements are also welcome.

# **3mm Round LED Lamp**







FORWARD CURRENT VS. AMBIENT TEMPERATURE

RADIATION DIAGRAM

#### **Part Number Table**

| LED Chip      |                 | Lens Colour | Part Number |  |
|---------------|-----------------|-------------|-------------|--|
| Material      | Emitting Colour |             |             |  |
| AlGaAs / GaAs | Red             | Red clear   | 703-0090    |  |

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