

# 3.00mm Cylindrical LED Lamp multicomp<sup>PRO</sup>

RoHS  
Compliant

## Specifications

Dice material	: GaP/GaP
Emmiting Colour	: Red
Lens colour	: Red Diffused
Peak wavelength	: 700nm
Viewing angle	: 95°
Luminous intensity (IV)	: 1.5mcd

## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	90	mW
D.C. Forward Current	If	30	mA
Reverse Voltage	Vr	5	V
Reverse (Leakage) Current	Ir	100	µA
Operating Temperature Range	Top	-25 to +85	°C
Storage Temperature Range	Tstg.	-40 to +100	°C
Peak Current (1/10Duty Cycle, 0.1ms Pulse Width.)	If (peak)	100	mA
Soldering Temperature (1.6mm from body)	Tsol	Dip Soldering : 260°C for 5 sec. Hand Soldering : 350°C for 3 sec.	

## Electrical and Optical Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	0.6	1.5		mcd
Forward Voltage	Vf	If=20mA		2.1	3	V
Peak Wavelength	λp	If=20mA		700		nm
Dominant Wavelength	λd	If=20mA		650		nm
Reverse (Leakage) Current	Ir	Vr=5V			100	µA
Viewing Angle	2θ1/2	If=20mA		95		deg
Spectrum Line Halfwidth	Δλ	If=20mA		100		nm

### Notes:

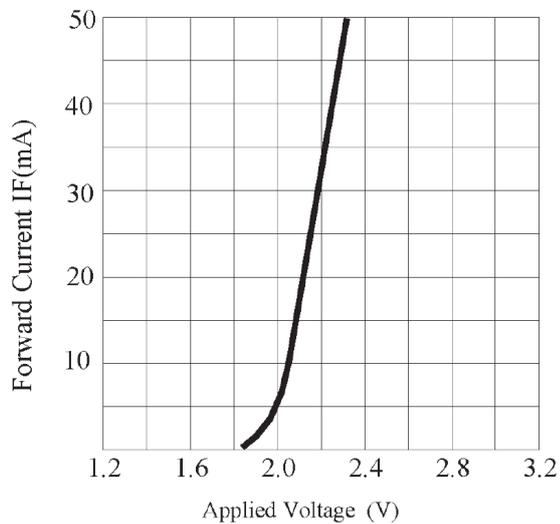
1. Tolerance of Luminous Intensity is ±15%.
2. Tolerance of Forward Voltage is ±0.1V.
3. Tolerance of Dominant Wavelength is ±1nm.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without notice.

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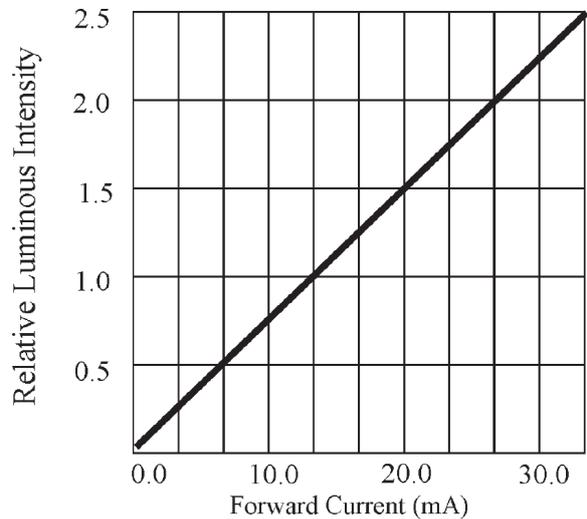
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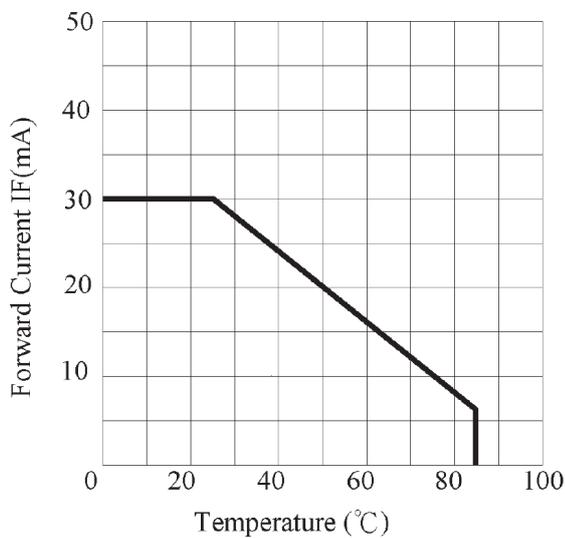
## Typical Electrical/ Optical Characteristics Curves



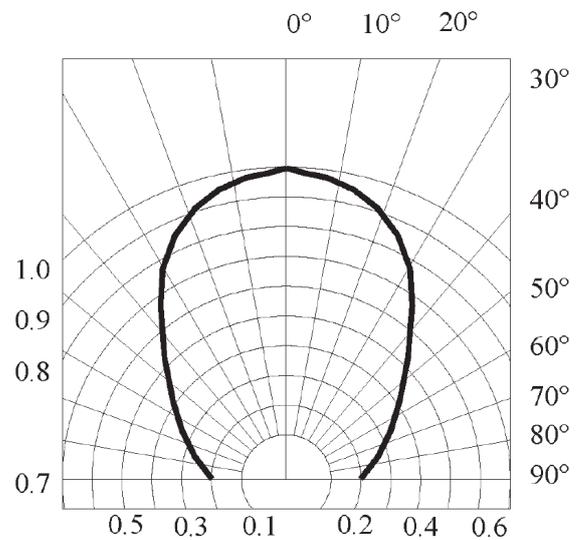
**FORWARD CURRENT VS. APPLIED VOLTAGE**



**FORWARD CURRENT VS. LUMINOUS INTENSITY**



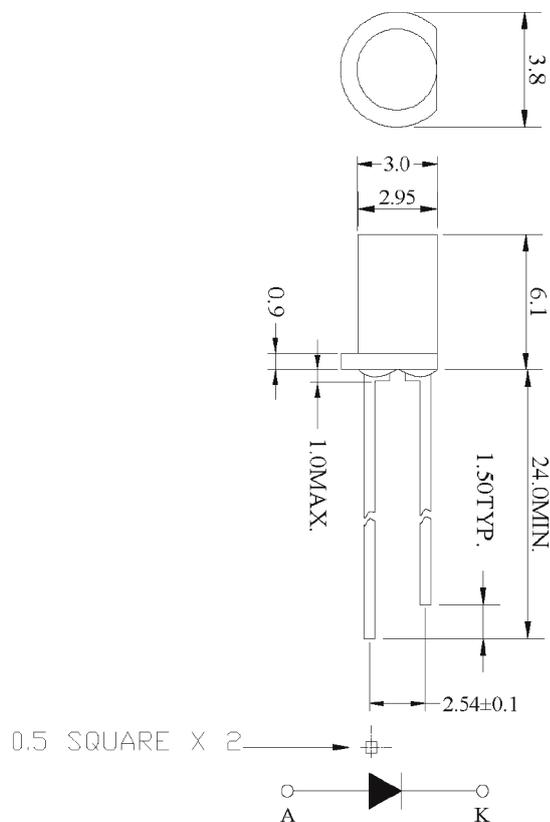
**FORWARD CURRENT VS. AMBIENT TEMPERATURE**



**RADIATION DIAGRAM**

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## Dimensions



Tolerance is  $\pm 0.25$ mm unless otherwise noted.

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Cylindrical LED, Red, 700nm, 95°, 1.5mcd, Through hole	MP008269

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