

3.00mm Round LED Lamp multicomp^{PRO}

RoHS
Compliant

Specifications

Dice material : GaAsP/GaP
Emmiting Colour : Orange
Lens colour : Orange Diffused
Peak wavelength : 610nm
Viewing angle : 60°
Luminous intensity (IV) : 30mcd

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	78	mW
D.C. Forward Current	If	30	mA
Reverse Voltage	Vr	5	V
Reverse (Leakage) Current	Ir	100	µA
Operating Temperature	Top	-25 to +85	°C
Storage Temperature	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

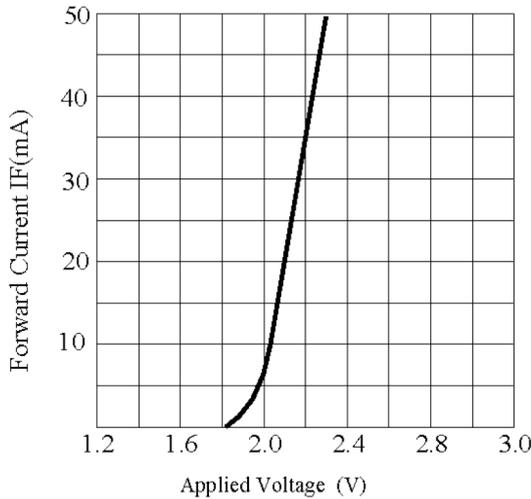
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	13.5	30		mcd
Forward Voltage	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	λp	If=20mA		610		nm
Dominant Wavelength	λd	If=20mA		605		nm
Reverse (Leakage) Current	Ir	Vr=5V			100	µA
Viewing Angle	2θ1/2	If=20mA		60		deg
Spectrum Line Halfwidth	Δλ	If=20mA		35		nm

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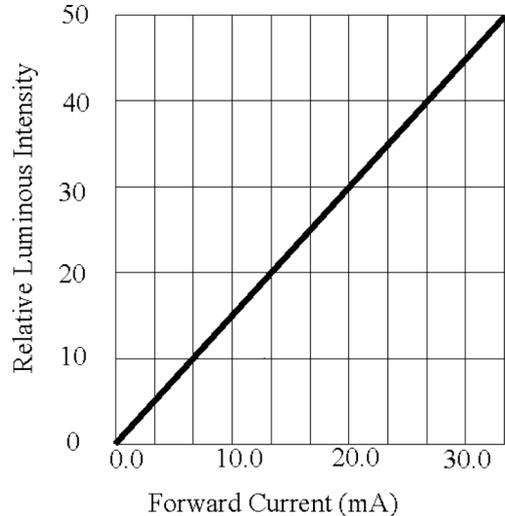
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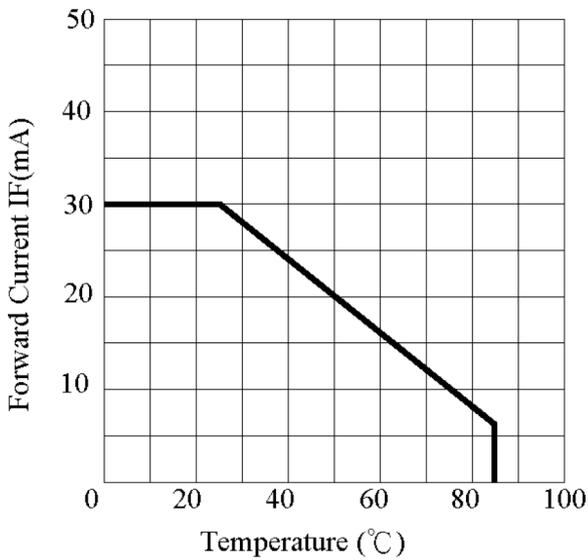
Typical Electrical/ Optical Characteristics Curves



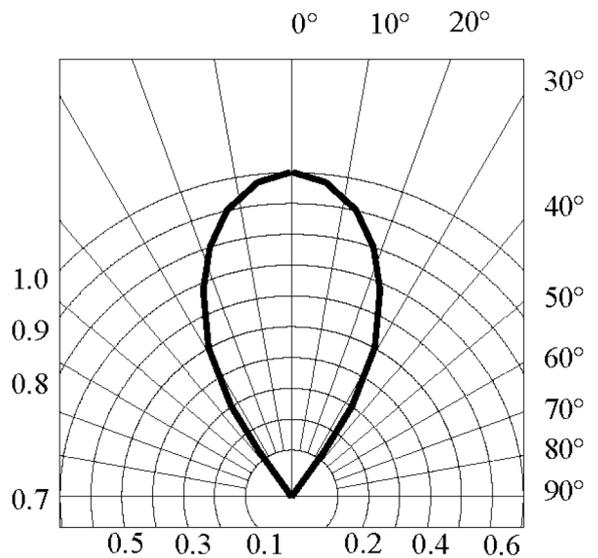
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



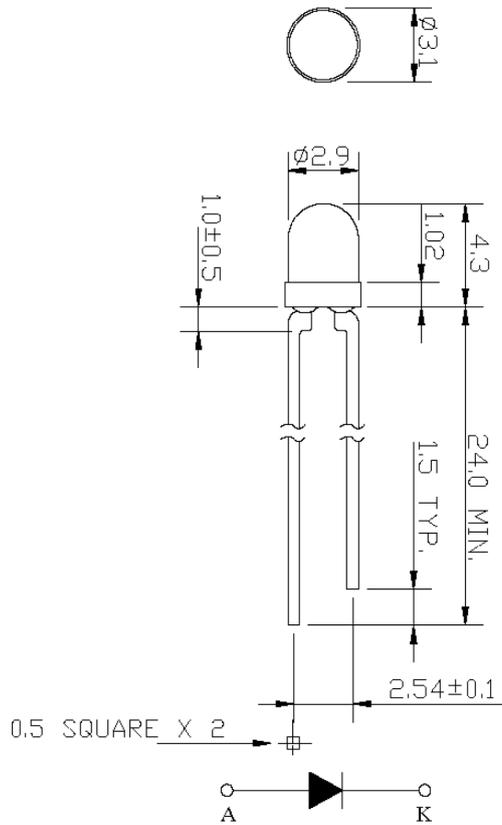
FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM

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Dimensions



Tolerance is ± 0.25 mm unless otherwise noted.

Dimensions : Millimetres

Part Number Table

Description	Part Number
Round LED, Orange, 610nm, 60°, 30mcd, Through hole	MP008271

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