

3.00mm Round LED Lamp multicomp^{PRO}

RoHS
Compliant

Specifications

Dice material : AlGaInP/GaAs
Emmiting Colour : Super red
Lens colour : Water Clear
Peak wavelength : 639nm
Viewing angle : 40°
Luminous intensity (IV) : 120mcd

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	72	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

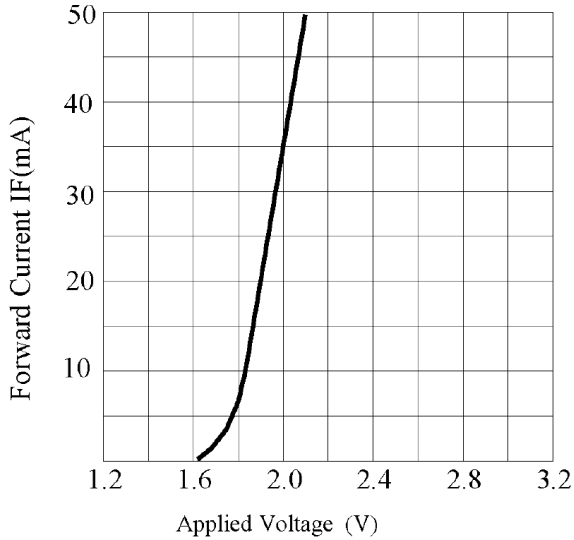
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	62.2	120		mcd
Forward Voltage	Vf	If=20mA		1.9	2.4	V
Peak Wavelength	λp	If=20mA		639		nm
Dominant Wavelength	λd	If=20mA		630		nm
Reverse (Leakage) Current	Ir	Vr=5V			100	µA
Viewing Angle	2θ1/2	If=20mA		40		deg
Spectrum Line Halfwidth	Δλ	If=20mA		20		nm

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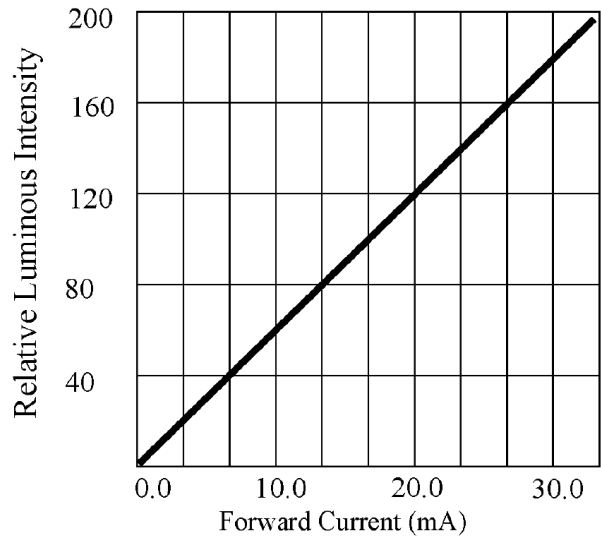
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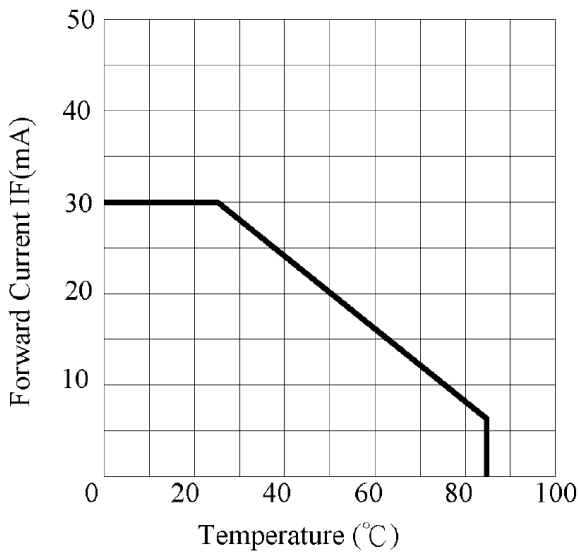
Typical Electrical/ Optical Characteristics Curves



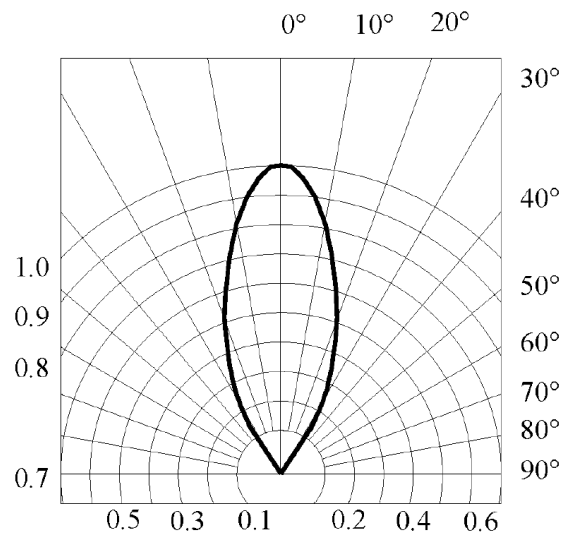
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



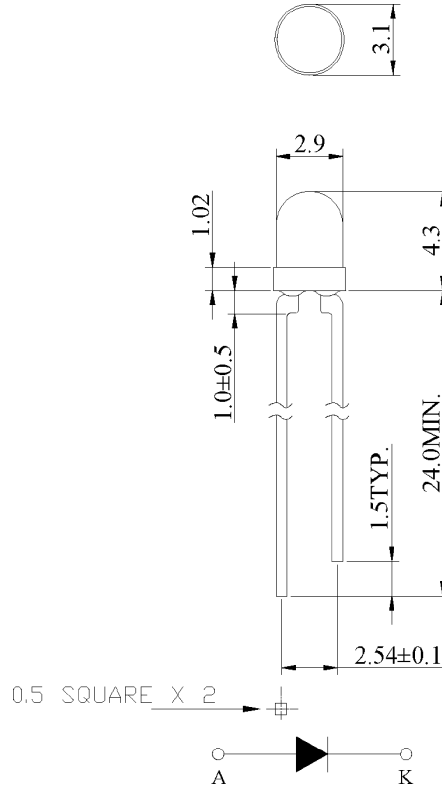
FORWARD CURRENT VS. AMBIENT TEMPERATURE



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, Super Red, 639nm, 40°, 120mcd, Through hole	MP008273

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