

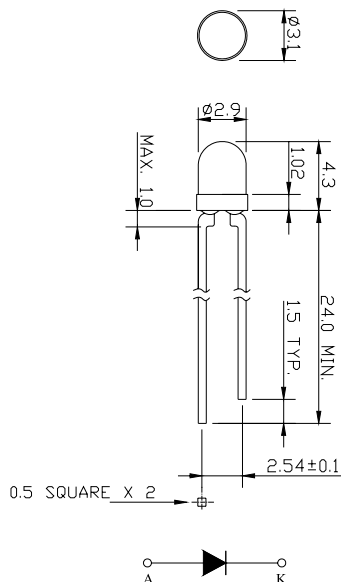
2.9mm Round LED Lamp



Features:

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

Package Dimensions:



* All dimensions are in mm
* Tolerance: ±0.25mm

Ant Part No.	LED Chip		Lens Colour
	Material	Emitting Colour	
703-0096	AlGaAs / AlGaAs	Super red	Red clear

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www.element14.com
www.farnell.com
www.newark.com



2.9mm Round LED Lamp



Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	72	mW
Reverse Voltage	V _R	4	V
D.C. Forward Current	I _f	30	mA
Reverse (Leakage) Current	I _r	100	μA
Peak Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)	I _f (Peak)	100	mA
Operating Temperature Range	T _{opr}	-25 to +85	°C
Storage Temperature Range	T _{stg}	-40 to +100	°C
Soldering Temperature (1.6mm from body)	T _{sol}	Dip Soldering: 260°C for 5sec. Hand Soldering: 350°C for 3sec.	

Electrical & Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _f = 20mA	135	260		mcd
Forward Voltage	V _f	I _f = 20mA		1.9	2.4	V
Peak Wavelength	λ _p	I _f = 20mA		660		nm
Dominant Wavelength	λ _d	I _f = 20mA		643		nm
Reverse (Leakage) Current	I _r	V _r = 5V			100	μA
Viewing Angle	2 θ ½	I _f = 20mA		60		deg
Spectrum Line Halfwidth	Δλ	I _f = 20mA		20		nm

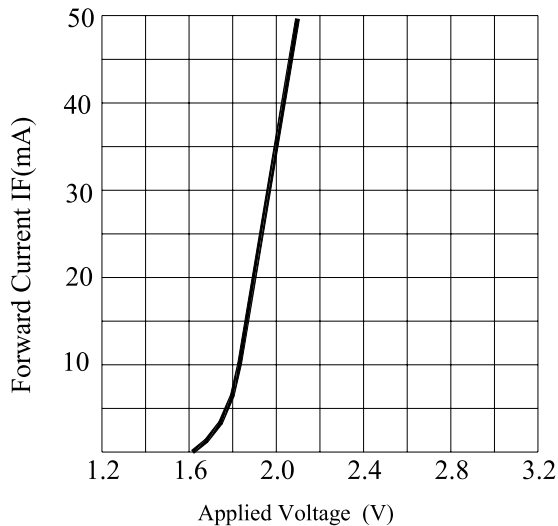
- Notes: 1. The data is tested by IS tester.
2. Customer's special requirements are also welcome.

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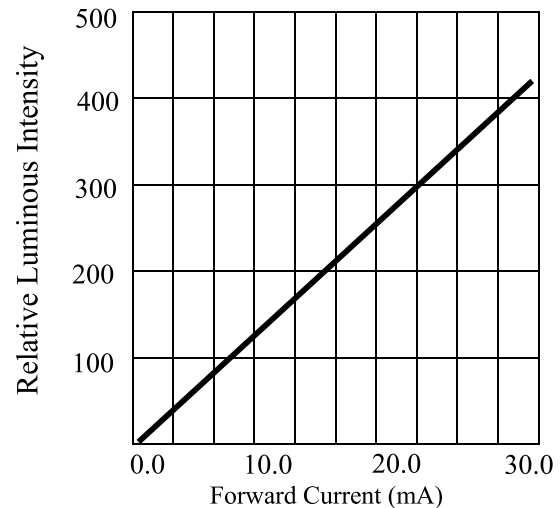
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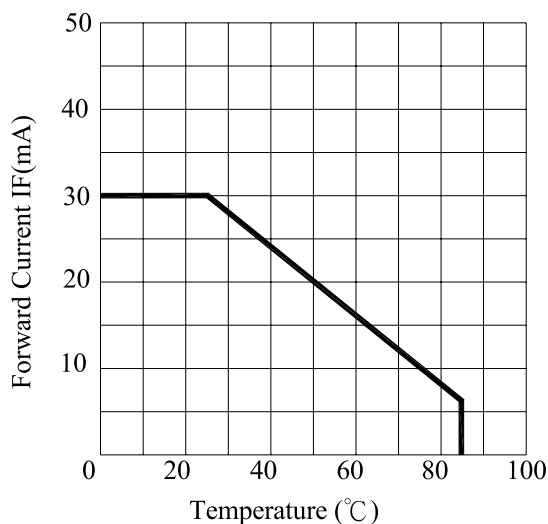
Typical Electrical & Optical Characteristics Curves:



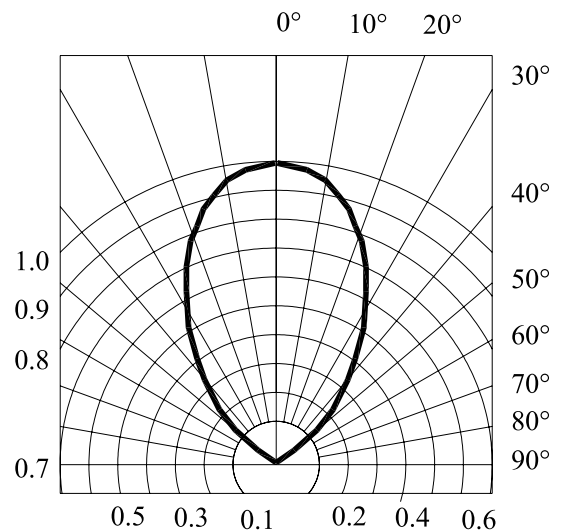
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM

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