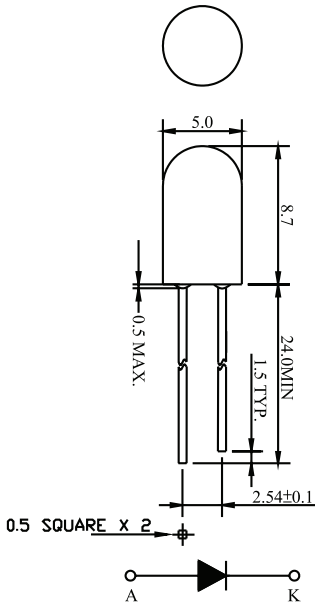


5mm Round LED Lamp



Package Dimensions:



Features:

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

All dimensions are in mm
Tolerance: ± 0.25 mm

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	66	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	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +100	$^\circ\text{C}$
Soldering Temperature (1.6mm from body)	T_{sol}	Dip Soldering: 260°C for 5sec. Hand Soldering: 350°C for 3sec.	

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



5mm Round LED Lamp

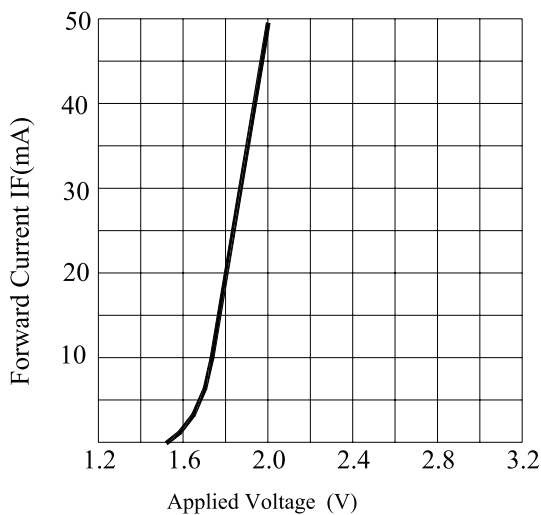


Electrical & Optical Characteristics:

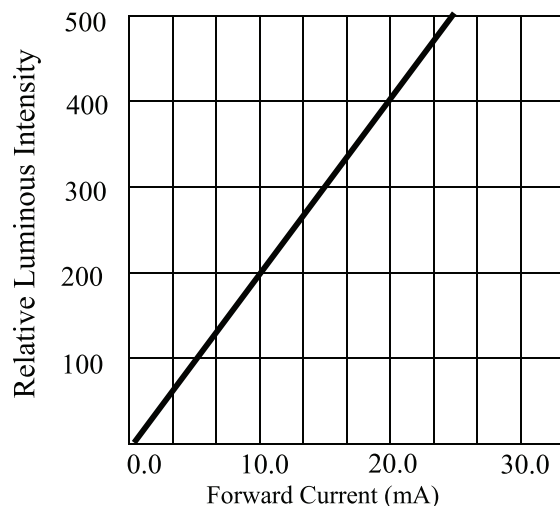
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I_v	$I_f = 20\text{mA}$	200	400		mcd
Forward Voltage	V_f	$I_f = 20\text{mA}$		1.8	2.2	V
Peak Wavelength	λ_p	$I_f = 20\text{mA}$		660		nm
Dominant Wavelength	λ_d	$I_f = 20\text{mA}$		643		nm
Reverse (Leakage) Current	I_r	$V_r = 5\text{V}$			100	μA
Viewing Angle	$2\theta_{1/2}$	$I_f = 20\text{mA}$		15		deg
Spectrum Line Halfwidth	$\Delta\lambda$	$I_f = 20\text{mA}$		20		nm

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

Typical Electrical & Optical Characteristics Curves:



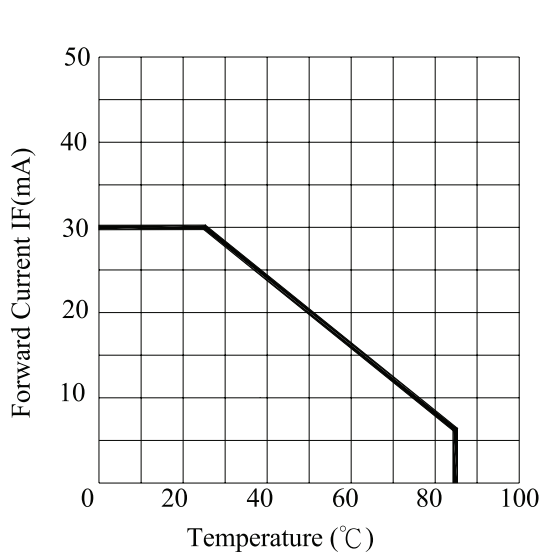
FORWARD CURRENT VS. APPLIED VOLTAGE



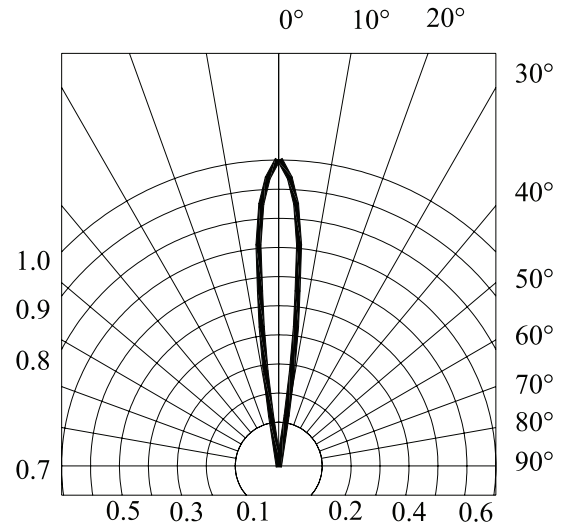
FORWARD CURRENT VS. LUMINOUS INTENSITY



5mm 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	703-0100

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