

3mm Round LED Lamp



RoHS
Compliant



Specifications:

Dice Material	: GaAsP on GaP
Emitted Colour	: Hi-Eff Red
Lens Colour	: Red Diffused
Peak Wavelength	: 635nm
Viewing Angle	: 50 Deg.
Luminous Intensity (IV)	: 40mcd

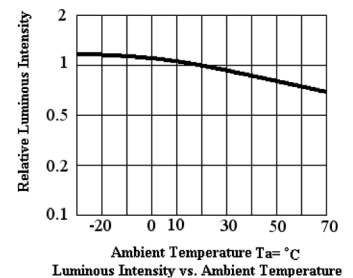
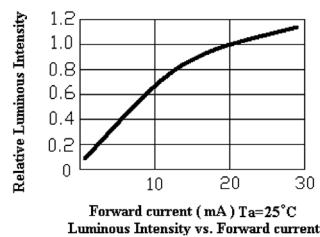
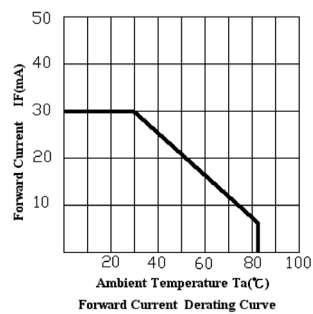
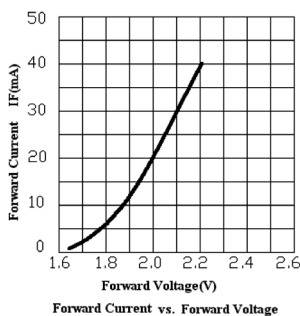
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Reverse Voltage	5V
Reverse Current	10 μA ($V_R = 5\text{V}$)
Operating Temperature Range	-40 $^\circ\text{C}$ to +85 $^\circ\text{C}$
Storage Temperature Range	-40 $^\circ\text{C}$ to +100 $^\circ\text{C}$
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260 $^\circ\text{C}$ for 5 Seconds

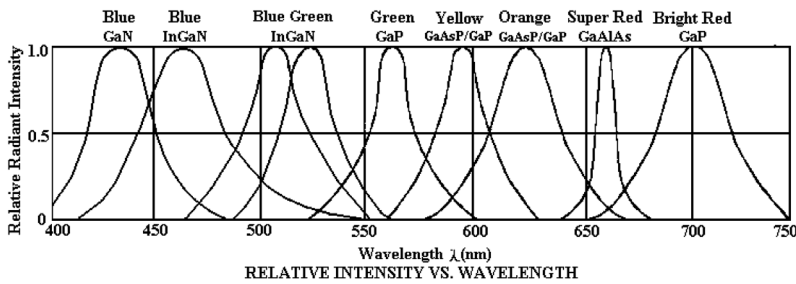
Electrical/Optical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	25	40	60	mcd	IF = 20mA
Viewing Angle	2 θ 1/2		50		Degrees	
Peak Emission Wavelength	λ_P		635		nm	
Dominant Wavelength	λ_D	620	625	630		
Spectral Line Half-Width	$\Delta\lambda$		45			
Forward Voltage	V _F	1.8	2	2.6	V	IF = 20mA
Power Dissipation	P _d			85	mW	
Peak Forward Current (Duty 1/10 at 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

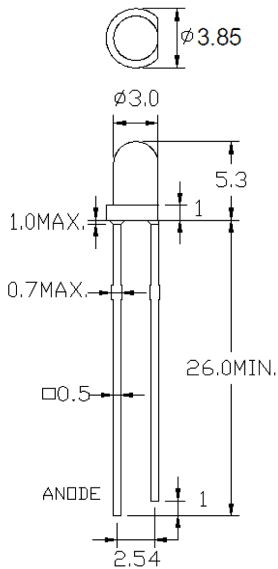
Typical Electro-Optical Characteristics Curves



3mm Round LED Lamp



Diagram



Dimensions : Millimetres

Part Number Table

Description	Part Number
3mm Round LED Lamp, Hi-Eff Red, 50°, TH	MCL034MD

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