

3mm Round LED Lamp

multicompPRO

**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 μ A ($V_R = 5V$)
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	2θ 1/2		50		Degrees	
Peak Emission Wavelength	λP		635		nm	
Dominant Wavelength	λD	620	625	630		
Spectral Line Half-Width	Δλ		45			
Forward Voltage	VF	1.8	2	2.6	V	IF = 20mA
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty 1/10 at 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

Storage

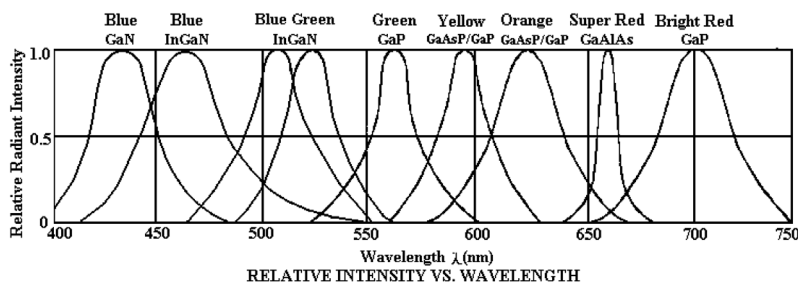
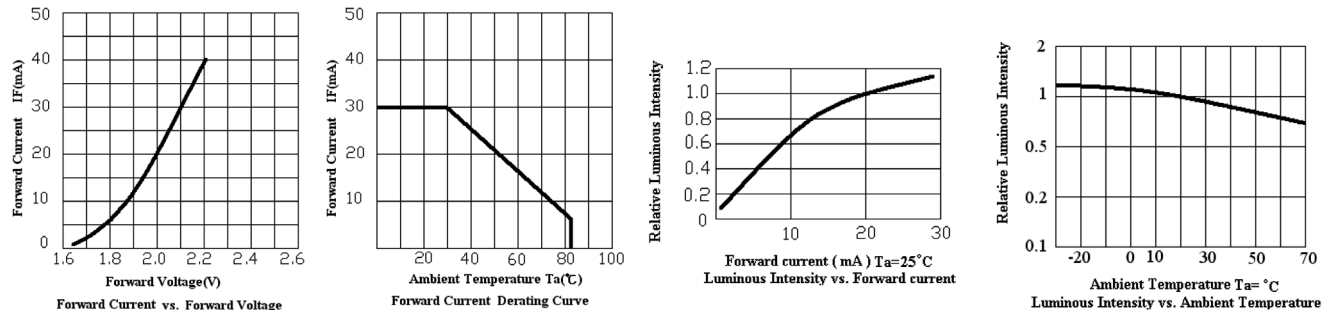
The Storage Temperature and RH are: 5 $^{\circ}\text{C}$ to 30 $^{\circ}\text{C}$, RH 60% or less.

Once the package is opened, the products should be used within a week. Otherwise, they should be kept in moisture proof package with moisture absorbent material (silica gel).

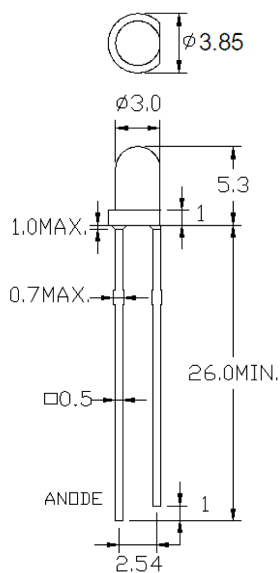
Suggested to use the products within a year. If the moisture absorbent material (silica gel) has faded away or the LEDs exceeded the storage time, baking treatment should be performed using the following conditions.

Baking treatment: more than 24 hours at 60 $^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

Typical Electro-Optical Characteristics Curves



Diagram



Dimensions : Millimetres

Part Number Table

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

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