

# Round LED Lamp

## HI Red, 3mm



RoHS  
Compliant



### Specifications:

Dice Material	: GaP
Emitted Colour	: HI-Red
Lens Colour	: Red Diffused
Peak Wavelength	: 697nm
Viewing Angle	: 76°
Luminous Intensity (IV)	: 2.6mcd

### Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Reverse Voltage	5V
Reverse Current	10μA (V <sub>R</sub> = 5V)
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature Range 1.6mm (1/16") from body	260°C for 5 Seconds

### Electrical/Optical Characteristics at T<sub>a</sub> = 25°C

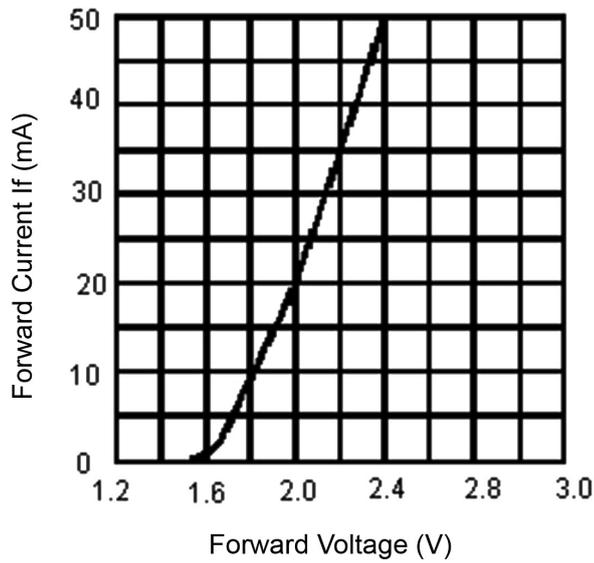
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.2	2.6	3.8	mcd	IF = 10mA
Viewing Angle	2θ 1/2	-	76	-	degrees	
Peak Emission Wavelength	λP	-	697	-	nm	-
Dominant Wavelength	λD	-	650	-		-
Spectral Line Half-Width	Δλ	-	90	-		-
Forward Voltage	VF	1.7	2.1	2.6	V	IF = 10mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1kHz)	IF (Peak)	-	-	50	-	-
Recommended Operating Current	IF (Rec)	-	10	-	mA	-

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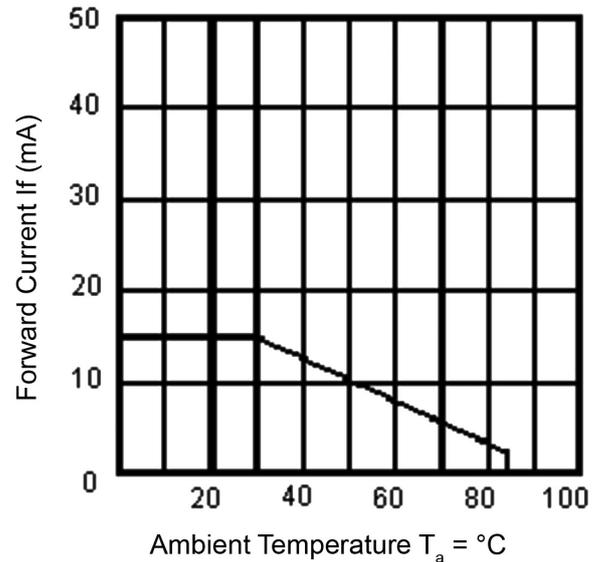
## HI Red, 3mm



### Bright Red (GaP $\lambda_P = 697\text{nm}$ )

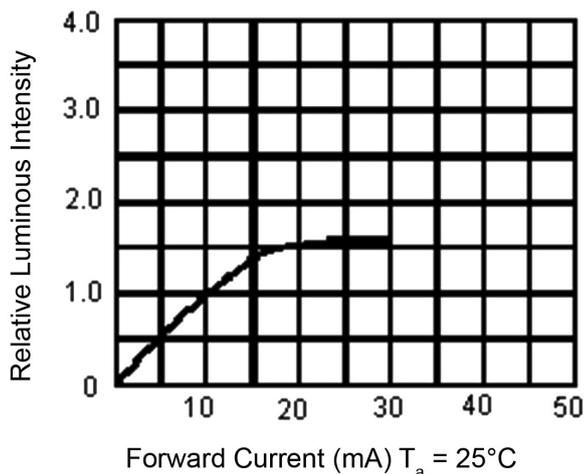


Forward Current vs. Forward Voltage

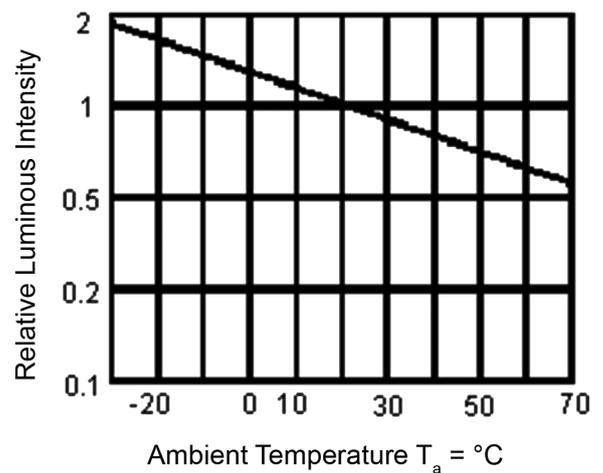


Forward Current Derating Curve

### Bright Red (GaP $\lambda_P = 697\text{nm}$ )



Luminous Intensity vs. Forward Current

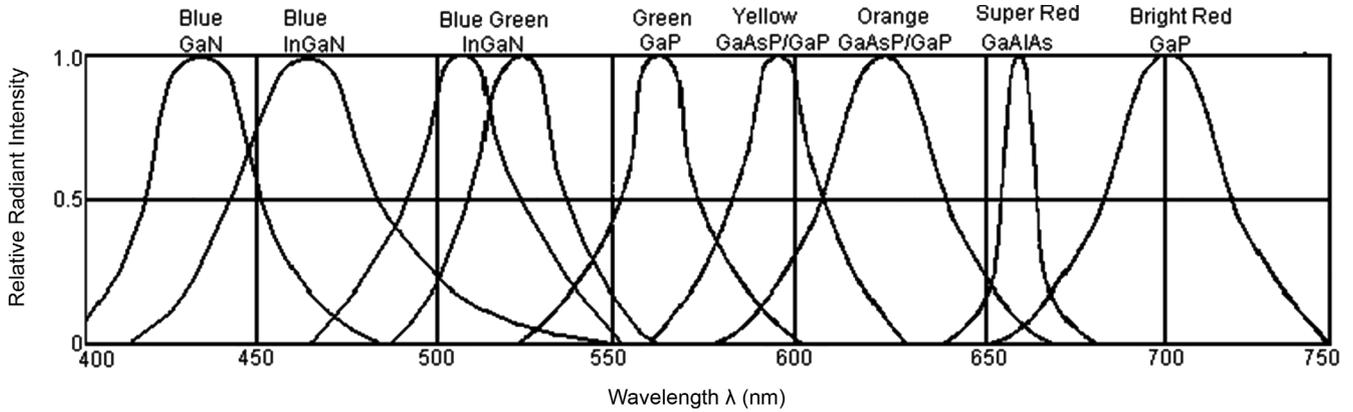


Luminous Intensity vs. Ambient Temperature

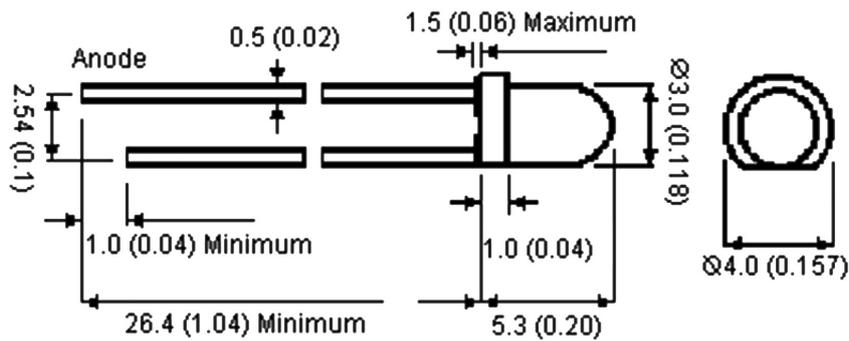


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Relative Intensity vs. Wavelength



Dimensions : Millimetres (Inches)

### Part Number Table

Description	Part Number
LED, 3mm, 70°, HI-Red	MCL034PD

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