

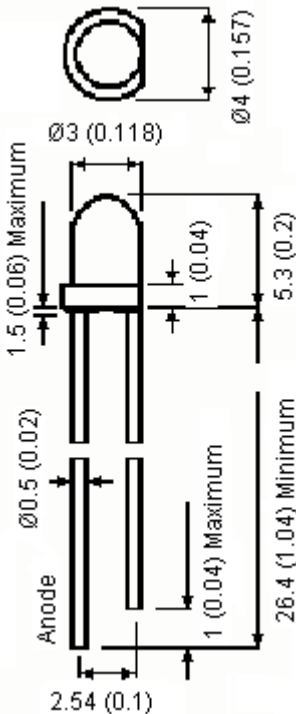
3.0 mm Round LED Lamp

Warm White



Specifications :

Dice Material	: InGaN
Emitted Colour	: White
Lens Colour	: Water clear
Dominant Wavelength	: $\lambda = 0.32$
Viewing Angle	: 36 degrees
Luminous Intensity (IV)	: 3,700 mcd



Dimensions : Millimetres (Inches)

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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	2,500	3,700	5,500	mcd	IF = 20 mA
Viewing Angle	$2\theta 1 / 2$	-	36	-	degrees	
Peak Emission Wavelength	X	-	0.3	-	nm	-
Dominant Wavelength	Y	-	0.32	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	-	-		-
Forward Voltage	VF	2.7	3.4	4	V	IF = 20 mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1 / 10 at 1 KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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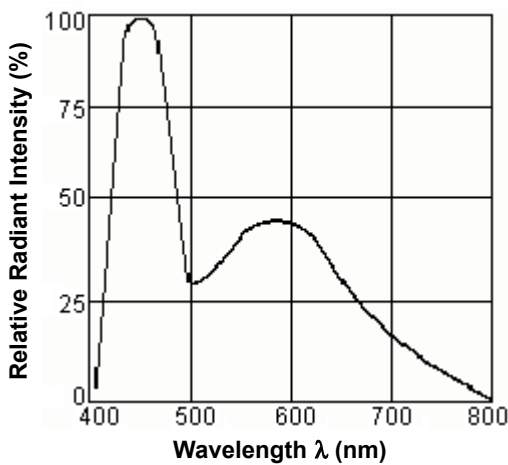
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Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

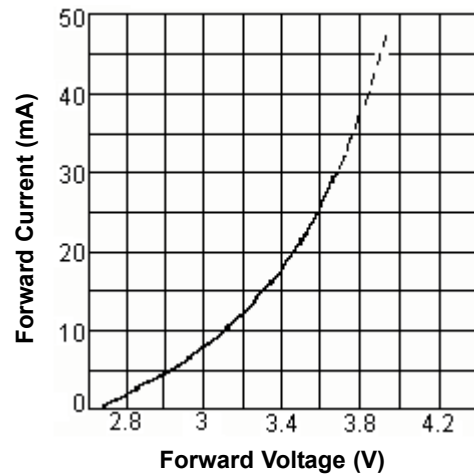
Reverse Voltage	5 V
Reverse Current	10 μA ($V_R = 5\text{V}$)
Electrostatics Discharge (ESD)	200 V
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature Range 1.6 mm (1 / 16 inch) from body	260°C for 5 Seconds

White Typical Electrical Optical Characteristics Curves ($T_a = 25^\circ\text{C}$ Ambient Temperature Unless Otherwise Noted)

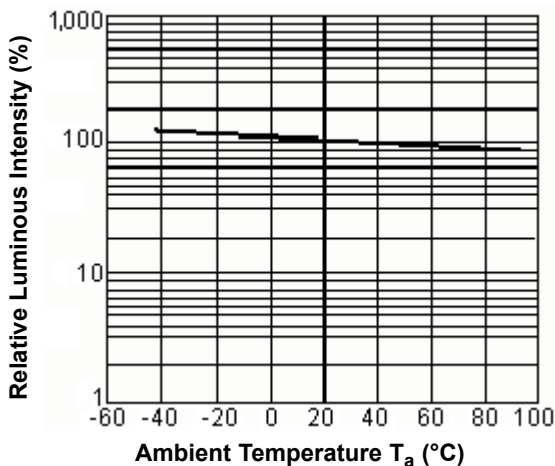
Relative Radiant Intensity
vs. Wavelength



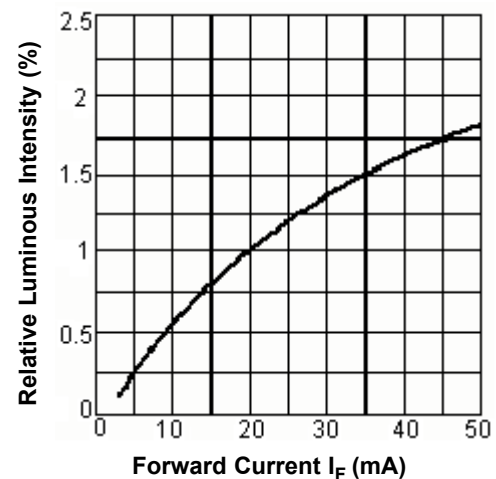
Forward Current
vs. Forward Voltage



Relative Luminous Intensity
vs. Ambient Temperature



Relative Luminous Intensity
vs. Forward Current

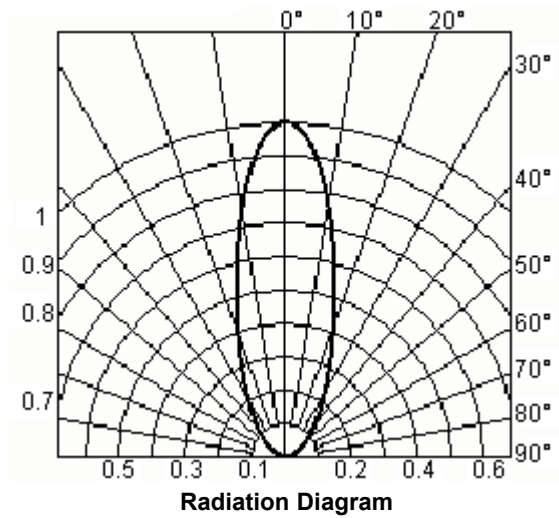
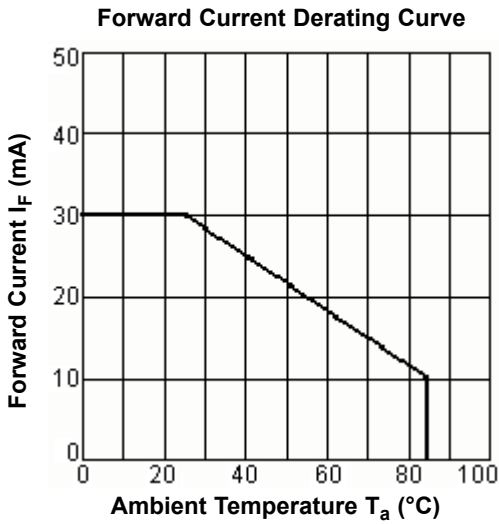


3.0 mm Round LED Lamp



Warm White

White Typical Electrical Optical Characteristics Curves ($T_a = 25^\circ\text{C}$ Ambient Temperature Unless Otherwise Noted)



Part Number Table

Description	Part Number
LED, 3 mm, 36°, Warm White	MCL034SWC-YH1

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