# **3.0 mm Round LED Lamp**

### **Super Blue**

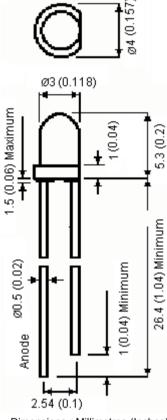




### **Specifications:**

Dice Material	: InGaN
Emitted Colour	: Super blue
Lens Colour	: Water clear
Peak Wave Length	: 470 nm
Viewing Angle	: 36 degrees
Luminous Intensity (IV)	: 1,450 mcd





Dimensions : Millimetres (Inches)

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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	700	1,450	2,050	mcd	IF = 20 mA
Viewing Angle	20 1/2	-	36	-	degrees	1F - 20 MA
Peak Emission Wavelength	λΡ	-	470	-		-
Dominant Wavelength	λD	-	472	-	nm	-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	2.7	3.5	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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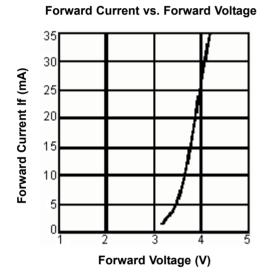
## **Super Blue**

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

Reverse Voltage	5 V
Reverse Current	10 μA (V <sub>R</sub> = 5 V)
Electrostatic 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 inches) from body	260°C for 5 Seconds

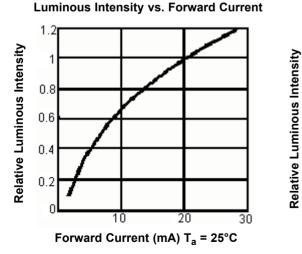
### Super Blue (InGaN) $\lambda P = 470$ nm)

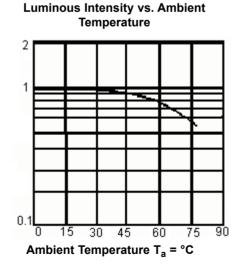


Purved Current If (m)

**Forward Current Derating Curve** 

Ambient Temperature T<sub>a</sub> = °C





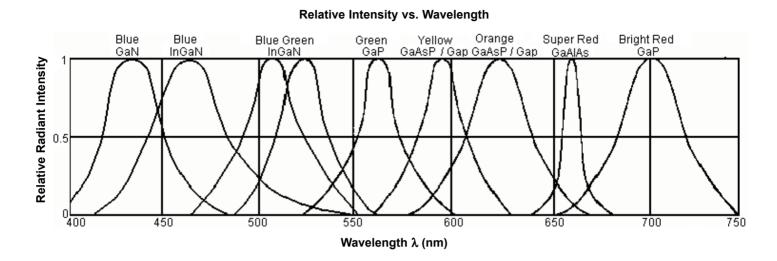
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## **Super Blue**



### Part Number Table

Description	Part Number
LED, 3 mm, 1.45 CD, Blue	MCL034SBLC

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