

3mm Round LED Lamp

Super Blue

multicomp^{PRO}

RoHS
Compliant



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

Electrical / Optical Characteristics at T_A = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	700	1,450	2,050	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	36	-	degrees	
Peak Emission Wavelength	λP	-	470	-	nm	-
Dominant Wavelength	λD	-	472	-		-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	2.7	3.5	4	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1 / 10 at 1kHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

Absolute Maximum Ratings (T_A = 25°C)

Reverse Voltage	5V
Reverse Current	10μA (VR = 5V)
Electrostatic Discharge (ESD)	200V
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature Range 1.6mm (1/16 inches) from body	260°C for 5 Seconds

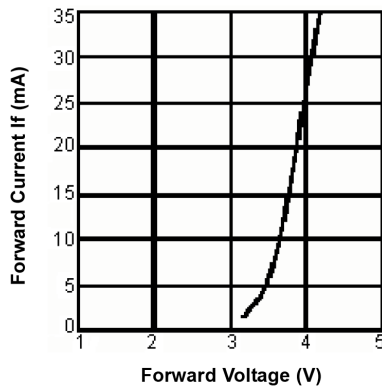
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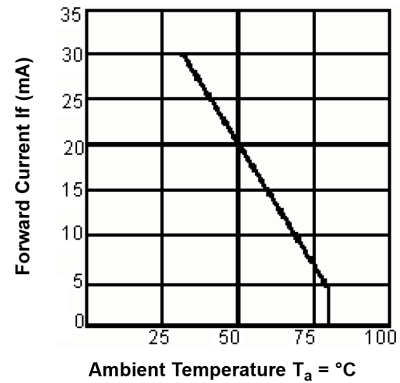
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Super Blue (InGaN) $\lambda_P = 470\text{nm}$

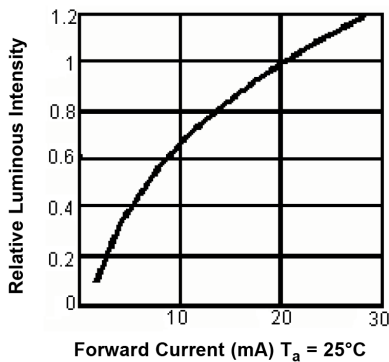
Forward Current vs. Forward Voltage



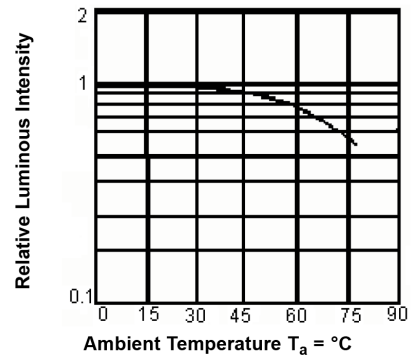
Forward Current Derating Curve



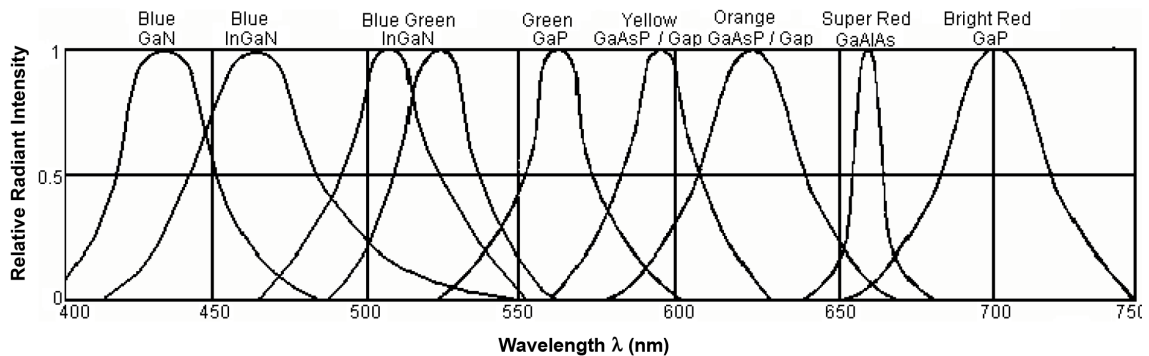
Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength



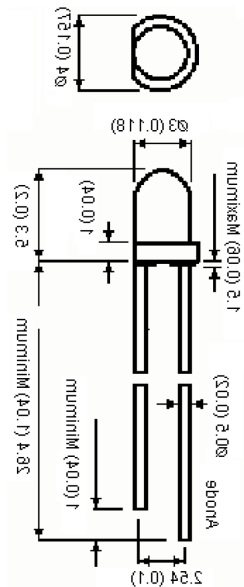
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Diagram



Dimensions : Millimetres

Part Number Table

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

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